Data Exploration

Mingjun Xie 30971586 mx4n19@soton.ac.uk

Jie Zhou 31384579 [jz5n19@soton.ac.uk](mailto:jz5n19@soton.ac.uk)

Zixuan Cai 31303528 [zc1g19@soton.ac.uk](mailto:zc1g19@soton.ac.uk)

Chenguang Zhu 31369251 cz1g19@soton.ac.uk

ABSTRACT

The dataset we are going to explore is cardiovascular disease dataset. We will first develop the exploratory data analysis (EDA) to get an intuition and important information about the data sets. Then the main task for our project is to use these 70000+ data to predict whether testee faced with cardiovascular disease.

1 Browse the Data Structure

The first thing we need to do is to look at the data structure, we use head(), describe() and info() to print the profile of the data, The output is shown below.

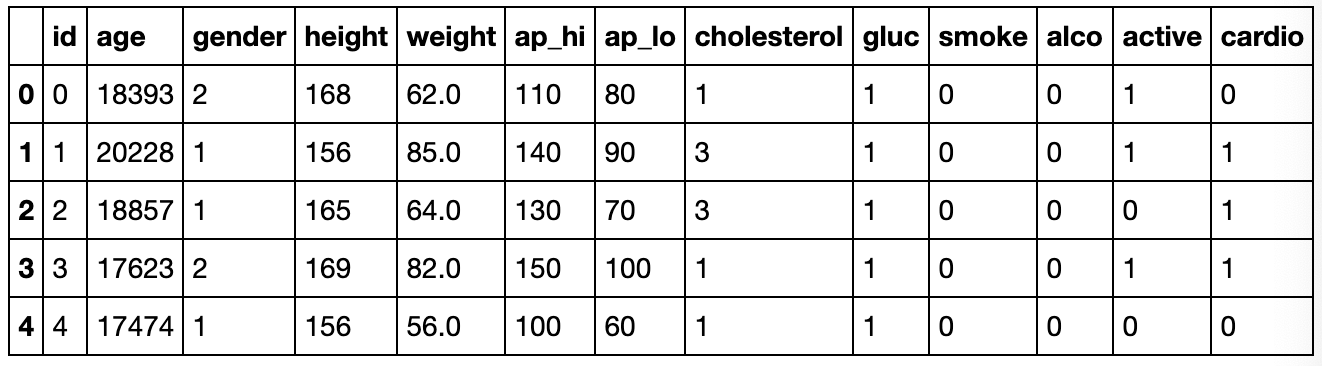


Figure 1: head()

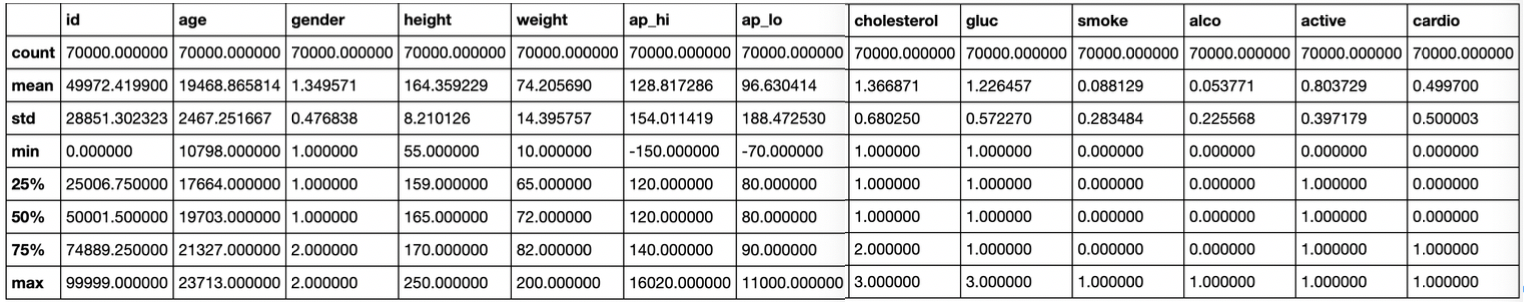


Figure 2: describe()

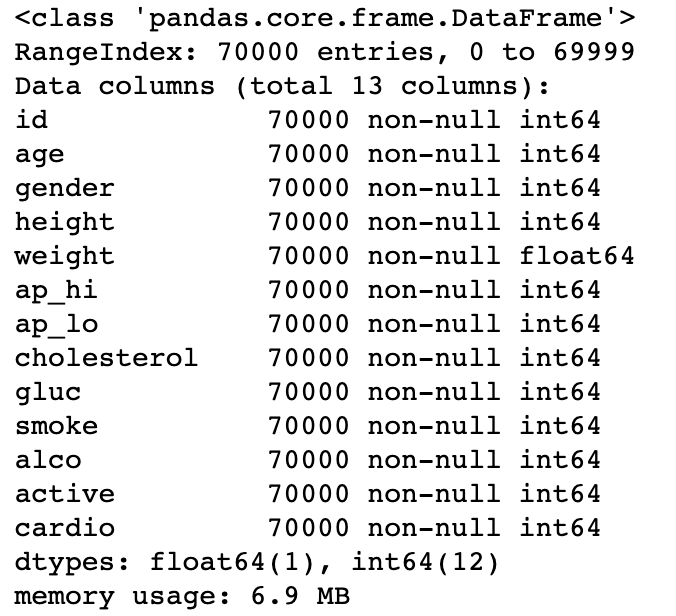


Figure 3: info()

From the Figure 1 and 3, we can see that the dataset consists of 70 000 records of patients data, 11 features + a target and there is no missing data and text data. As the description shown in Figure 2, there are some outliers in the data. The systolic blood pressure (ap\_hi) and diastolic blood pressure (ap\_lo) have negative number, their maximum numbers are also abnormal since the blood pressure can’t go such high like this. Additionally, the minimum number in weight is too small to be an adult’s weight. We will check these outliers and handle it later.

Then we make the histograms about each attribute, we find that the attributes have very different scales and some are tail heavy.

2 Split the training and testing dataset

After taking a quick glance at the data set, we need to create a test set before we do further works to discover and visualize the data and gain insights. If we look at the whole dataset without splitting the test set, we may stumble upon some impressive pattern of the whole dataset which may lead us to make some bias decision. Also, using the whole data as training set, the estimation error will be too optimistic which will cause that our model will be an biased model and has a poor generalization performance.

There are many ways to create a teat set. For example, we can use hash to help us split. But hash method has a problem that the real proportion of training and test set may not strictly follow the setting. As the result showed in Figure 4, we set the proportion of test set is 0.2, but the number of incidences in test set is 14243 but not 14000.

![A screenshot of text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFppeHVhbiBDYWkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5MwAAkpIAAgAAAAM5MwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDowNDozMCAyMDozODo0MAAyMDIwOjA0OjMwIDIwOjM4OjQwAAAAWgBpAHgAdQBhAG4AIABDAGEAaQAAAP/hCx1odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIwLTA0LTMwVDIwOjM4OjQwLjkyODwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5aaXh1YW4gQ2FpPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAbICpgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APoKzGLKH/rmp/SpqhtSFsYSxAAiUkntxWLpPjrwvrlzd2+l69p1zJZljIsd1GfkVVZpBg8oN2C3TINAHQUVl2vifQb2S0jstb064e+DG0WK7jc3AXO4oAfmxg5xnGDT7DxFomq389lpmsWF5d2+fOt7e6SSSLBwdygkjB4570AaNFYmla7HqF5q8y6ro91pto6pG9ncb3gIXMgnOdqkHoOMDrVix8SaHql79j0zWdPvLryhP5FvdJI/lkAh9oJO0hl56cj1o3A06KKzbbxHod5q8ulWms6fPqMOfMs4rpGmTHXKA5GO/FAGlRVG21zSbzULmxtNUsp7y0/4+LeK4RpIf99Qcr+NUNE8beG/EV/cWWia1Y3tzbsVaKG5R2YAKS6gHJX5gN3TIIoWuwbG7RTJTIsLmFVeQKSiu20E44BODge+D9KwfC3i6w8RWForXtimrS2q3M+nQ3KvJCrAHlfvY+YckDOR60AdDRWdYeItE1W/nstM1iwvLu3z51vb3SSSRYODuUEkYPHPeo08S6PdahcaZp2rabdarArbrFbxPMVl6hlGWUA4yccelK+lwNWiue8LeLrDxFYWite2KatLarcz6dDcq8kKsAeV+9j5hyQM5HrXQ09gCikJCqSxAAGST2rD0Txt4b8RX9xZaJrVje3NuxVooblHZgApLqAclfmA3dMgijd2A3aKo2ut6VfajcafZanZ3F7a/wDHxbRXCvJD/vKDlfxqKDxLoV1qsumW2tafNqEG7zbSO6RpY9v3tyA5GO+RxQBp0VhaJ428N+Ir+4stE1qxvbm3Yq0UNyjswAUl1AOSvzAbumQRW7QAUVm23iPQ7zV5dKtNZ0+fUYc+ZZxXSNMmOuUByMd+Kkttc0m81C5sbTVLKe8tP+Pi3iuEaSH/AH1Byv40AXqKwtE8beG/EV/cWWia1Y3tzbsVaKG5R2YAKS6gHJX5gN3TIIralMiwuYVV5ApKK7bQTjgE4OB74P0oeiuHWw+iue8LeLrDxFYWite2KatLarcz6dDcq8kKsAeV+9j5hyQM5HrWhYeItE1W/nstM1iwvLu3z51vb3SSSRYODuUEkYPHPen1sBo0VlJ4l0e61C40zTtW0261WBW3WK3ieYrL1DKMsoBxk449Kp+FvF1h4isLRWvbFNWltVuZ9OhuVeSFWAPK/ex8w5IGcj1pLUDoaKbI4ijZ2DEKCSFUsePQDk/QVmp4gs3dVEOogscDOmXIH5mPirjTnNXimylGUtkalFFZsniPQ4taXR5dZ09NTbG2ya6QTHIyMR53dOelQSaVFZVt4p8P3t9FZWeu6bcXcwYxW8V5G0jhSQ2FBycFWB9MH0qC11fUJPGl3pF3aWsVrHaLcQTRTtI8gLlfmBVQnQ8At9e1C1aXcHomzcorHttY+2eLLqwtNR0qe3tLcefbRTbruGYt/GoOFTb6jOahtfG/hq98RzaFba3YSalDgG3W5QszfNlFGcll2HcB0yM0LUNjeoorBtfG/hq98RzaFba3YSalDgG3W5QszfNlFGcll2HcB0yM0Ab1FZMfizw7KsZi1/S3Etz9kjK3kZ3z8fuhzy/I+XrzUqeItEl1ptHj1iwfVF+9YrdIZxxnmPO7pz06UAaNFY9trH2zxZdWFpqOlT29pbjz7aKbddwzFv41BwqbfUZzT7fxT4fu76Gytdd02e6uAxhgjvI2kk2khtqg5OCrA46bT6UbgatFFYNr438NXviObQrbW7CTUocA263KFmb5soozksuw7gOmRmgDeoqj/belf2z/AGR/adn/AGns3/YvtC+dtxndszuxjvio5PEehxa0ujy6zp6am2Ntk10gmORkYjzu6c9KANKisG18b+Gr3xHNoVtrdhJqUOAbdblCzN82UUZyWXYdwHTIzW9R0uAUVzuh+LrPUJEsdTu9Os9YeeeNNOS8DyOI5HTcoIVmBEZOdo7+lW/+Et8ObN//AAkGl7ftH2Td9tjx53/PLr9//Z60Bs2jXoorHttY+2eLLqwtNR0qe3tLcefbRTbruGYt/GoOFTb6jOaOtg6XNiiub1vxhaabrlhpNpc6fcX1xdRw3Fq14Fngjfo4iAJI5HXaOQeelW764ku/EdtpMUkkUcUX2y4eNipYBwI0yOxIYnB6JjoxoWu39aX/ACB6GzRVBte0hdaXR21WyGpsu5bE3CecRjOfLzuxjnpTU8RaJLrTaPHrFg+qL96xW6QzjjPMed3Tnp0oA0aKyY/Fnh2VYzFr+luJbn7JGVvIzvn4/dDnl+R8vXmqOt+MLTTdcsNJtLnT7i+uLqOG4tWvAs8Eb9HEQBJHI67RyDz0o6pdw2u+x0lFY9trH2zxZdWFpqOlT29pbjz7aKbddwzFv41BwqbfUZzVn+3tI/tr+x/7Vsv7T27vsP2hPOxjOfLzuxjnp0o3QF+iiub1vxhaabrlhpNpc6fcX1xdRw3Fq14Fngjfo4iAJI5HXaOQeelHVLuHRs6Sis5PEWiS602jx6xYPqi/esVukM44zzHnd056dKpWvjfw1e+I5tCttbsJNShwDbrcoWZvmyijOSy7DuA6ZGaAN6is5PEWiS602jx6xYPqi/esVukM44zzHnd056dKSTxHocWtLo8us6emptjbZNdIJjkZGI87unPSgDSoqj/belf2z/ZH9p2f9p7N/wBi+0L523Gd2zO7GO+Kz7Xxv4avfEc2hW2t2EmpQ4Bt1uULM3zZRRnJZdh3AdMjNAG9RRRQAUVy6+ItQMyX2y2/sl7/AOxBAred9/y/M3Zxjf8Aw7enOe1dRUxkpK6IjNSdl/X9WCiucbWNWW5huGhiSzlvvsf2WS3dZ8biokDlsEcbsBcbc88V0dEZcyuv66/qNSTdgoorETR9Qk1431zqUq24k3i2ilYKQoKouOOOSzerEDooy76msYpp3djborOt9R+069cWtveWE0FvCBJDHJuuI5dx+8AcBcY985qtqfiKCz1W00+3ms5rma4SKaE3AEsStzu2AEn8cdR1pcy08ylSm3ypdLm1RWImj6hJrxvrnUpVtxJvFtFKwUhQVRcccclm9WIHRRldMuZbbxBf6NPI8yrGl5bSSNuYI7MGQk8naykgnsyjtTTuTOKjs7m1RRRTICiiigCG0/48oP8Armv8q5/SE1PS9d1yJ9HuJbe5u2vI7tJotjr5MaiMAvu37lI+ZVXHO7segtP+PKD/AK5r/KpqOt/l/X3AcZ4V0yU2uovqHhZ7C+a9nvIZNQa3kDs7ybMGORypVXwen3mxnJrJ8OaZ4ntvEWjXF7puoi2tbd7aSG4ewjgtSwTmBYBu8obCAGJb7gx1Yek0ULRg9Tk9Fl1VPFOv3Fz4c1C3t7oo8Ery2xEnlxhNoCzEgsRkZAGOpFYei6feaDpvg+S+0N9Nt9LiuW1GZ5rZI7TcpBdyJOQx+Ylc+pwa9IopAYNt478I3t1FbWfinRLi4mYJHFFqMTM7HoAA2ST6VjeHrPWIdbij/srU7DT0EhMeoS2c0VuSD/x7vGxmJLH/AJacbc/dwFrt6KegHnPhDwxrFhqOlQas2tGPRw+ySaSxFpISpTKeUgmbdu3Yk2+pJIGd7TZLrQ9Y106lZG302a6a+OqS3ESwJH5Ma4PzbwwKHOVC4yd3QHqKZLLHBC8szrHHGpZ3c4Cgckk9hRfr5f8AB/QLXMGPx74TupBBYeJdHvbqT5Yba31GBpJm7Io38kngVzOh6Lq2n6d4PgTw3JbyWUNyt0GktwkLuhGX2yEsHb5iVDHnJ54r0CxvrbUrGG9sJ0uLadQ8UsZyrqehB7j3qehrdBc828Oab4otvEOjXF7puoi2tbeS2khuHsI4LUsE5gWAbvKGwgBiW+4MdWGhoNvrVrqyBdF1S2sIUlf7NfS2cscTEE7baRH83LMf+Wp27Sfu4ArtpZY4IXlmdY441LO7nAUDkknsKjsb621KxhvbCdLi2nUPFLGcq6noQe496Hr/AF3A4Lw7o+paZa+DI5PDs1oLCO4F6RJbhbdmUgs22Q7tzfNld3XJwa7Dw3q02ueH7bUbqzFnJNu/dLN5q4DEBlfA3KwAYHAyCK1Kp22rWV5qV7p9tMXubAoLhNjDYXXcvJGDkc8E4707gXK5rRYNSsfEGtW0umzLa3l413HqAlj8vaYo12hdxffuU9VC453dAelqg+vaRFrSaPJqtkmpyLuSya4QTMME5CZ3EYBPTsaXX8P6+4On4/195xHhHwxrNhqOlQas2tFNHEmySaSxFpISpTKeUgmbdu3Yk2+pJIGdDw5a6xBrsKHSdSsdOjEjNFqMtpNDbkg/8e7xsZiSx/5acbc/dwFrtqoT6iy6rHp9pCs83lmWYmTaIU5Ck8EkswwB6BjnjBLha5jabJdaHrGunUrI2+mzXTXx1SW4iWBI/JjXB+beGBQ5yoXGTu6A2rbx34RvbqK2s/FOiXFxMwSOKLUYmZ2PQABskn0rR0rUV1Oy83yzDNG7RTwscmKRThlz39Qe4IPertHRL0Dv8ziPD1nrEOtxR/2Vqdhp6CQmPUJbOaK3JB/493jYzElj/wAtONufu4C1Q8IeGNYsNR0qDVm1ox6OH2STSWItJCVKZTykEzbt27Em31JJAz6NRQtAepy+myXWh6xrp1KyNvps1018dUluIlgSPyY1wfm3hgUOcqFxk7ugM8fj3wndSCCw8S6Pe3Unyw21vqMDSTN2RRv5JPAroaKVtLeVg63POND0XVtP07wfAnhuS3ksoblboNJbhIXdCMvtkJYO3zEqGPOTzxTfDmm+KLbxDo1xe6bqItrW3ktpIbh7COC1LBOYFgG7yhsIAYlvuDHVh6TRT63A4bQbfWrXVkC6LqltYQpK/wBmvpbOWOJiCdttIj+blmP/AC1O3aT93AFVfDmjanp1v4Lhbw5Pa/YUuBelZLfEDOpG5tsnzbm+bK7jzzg16HRQDGyIJY2RiwDAglWKnn0I5H1FZqeH7NHVhNqJKnIzqdyR+Rk5rUoq41JwVotopSlHZhXEpa6wni0/Y9J1KCzkvTLOLiW0lsXGeZl+Y3CuVAwAAobqMEtXbUVC0dyXqrHlehSN4hjvtP0TT4ZYl8TPeTatDcwtFGI7kSHcA3meYVQKBtxtYHdjiupSTVP+FkSXB8PagLBrNbQXpltvLyHZt+3zd+3BA+7nPauroojpby/yt+QPW/n/AJ3OWR9T/wCFlSXB0C+Fg1ktqL4y2/l7g7Pu2+bv28gfdzntjmpVj1Cw8d3tyumyz2WoW9un2tZY1jt/LMu7eCwfOGGNqsCepHUdJRQtEl2/4cHq2/67HOj4h+CywUeL9BLE4AGpw5z/AN9U2OLUbLx5eXEWmS3NnqNvbILtJYxHB5Zk3bwW35IcY2qwJ6kdR0lFAHHaJYPeeKdcuNZ8KXNul5NHJFc3rW0qFY0iCrtSV2B3pvHyjopJBAFYf9meK11yzl/su+MNnqkly9rG9hFZFWMih4to84n5wzFyDy5wxwp9NooWlvIHqmu//DHLI+p/8LKkuDoF8LBrJbUXxlt/L3B2fdt83ft5A+7nPbHNYMOlapBp6uPDNxFM3idtQmxJbBjFvLCZj5uD8hC4zu4xjGK9HooWlrdP8+b8wet79f8AK35HOj4h+CywUeL9BLE4AGpw5z/31TY4tRsvHl5cRaZLc2eo29sgu0ljEcHlmTdvBbfkhxjarAnqR1HSUUAecW3hfWU8RPa3b609l/a7aissUlgtoR5nmLuOz7RuA+UjkHGNwU8aKWusJ4tP2PSdSgs5L0yzi4ltJbFxnmZfmNwrlQMAAKG6jBLV21FC0t5f8D/JA9b+f/B/zObWPULDx3e3K6bLPZahb26fa1ljWO38sy7t4LB84YY2qwJ6kdQ4fEPwWWCjxfoJYnAA1OHOf++q6KigDgV0XVGY6UuhtCkmunU21QTRGLYLjzRxu8zzCqhMbcYP3uw1bFoL3xnfPYX1vcafasJbgRSq3k3gUxsjY6YQAlTyDgnrXU0ULRW/rov0QPVt/wBf1qc6PiH4LLBR4v0EsTgAanDnP/fVV431M/EmS4Og3w09rJbUX3m2/l7g7Pu2+bv28gfdzntjmuqoo6p/1tYHqmv67nnUula1atbadF4bmult9fOpPqEc9uEkjeVm3AM4feFcKQVAwrYY8A9ZfW8lp4jttWijkljli+x3CRqWKguDG+B2BLA4HR89FNbNFC0S/rpb8gerb/re/wCZx2iWOoaZdS6ZceHvtCtqc16NVeWEwkO5YNgt5okCtsHyY+UfNisP+zPFa65Zy/2XfGGz1SS5e1jewisirGRQ8W0ecT84Zi5B5c4Y4U+m0ULRry/r9Aet/P8A4P8Amcdolg954p1y41nwpc26Xk0ckVzetbSoVjSIKu1JXYHem8fKOikkEAVly6VrVq1tp0Xhua6W3186k+oRz24SSN5WbcAzh94VwpBUDCthjwD6LRQtLeX+af6A9U13/wArHLI+p/8ACypLg6BfCwayW1F8Zbfy9wdn3bfN37eQPu5z2xzWSuh6qlomhNpjp5erDUW1zzYfLZRcecWxu8zzCn7s5THJ+Yjr39FC0tbp/nf8werb7/5WOdHxD8Flgo8X6CWJwANThzn/AL6rnJNK1q1a20+Lw5Ndrb68dSfUY57cJLG8rNuAZw5cK4UgqBhThjwD6LRQtGn/AFun+gPVNf12/U8y/szxWuuWcv8AZd8YbPVJLl7WN7CKyKsZFDxbR5xPzhmLkHlzhjhT1KQ6jY+PL2ePTJbi01G3t0+1pLGscBjMm7eC2/JDDG1WBPUjqOkooWisD1dzzL+zPFa65Zy/2XfGGz1SS5e1jewisirGRQ8W0ecT84Zi5B5c4Y4U66WusJ4tP2PSdSgs5L0yzi4ltJbFxnmZfmNwrlQMAAKG6jBLV21FC0t/Xb/IHr/Xr/mecW3hfWU8RPa3b609l/a7aissUlgtoR5nmLuOz7RuA+UjkHGNwU8dGkOo2Pjy9nj0yW4tNRt7dPtaSxrHAYzJu3gtvyQwxtVgT1I6jpKKFokgerbMrQtXm1cag0totulreyW0UiTeas6rj5wcDHJKkc4ZWGTitWiigDkF0fUwI9G+xkWcepfbPtvmLtMfmebs253b9x29MY5z2rpbG4u5xcfbbL7IY52SL96H82MdH46Z9DyKtUVEYcqsn/Wn+RnGmou6f9a6fic3HLqkutGe40W73rN5cEjywGCCLdhnwJNxZlyc7cjheBkm/oWrzauNQaW0W3S1vZLaKRJvNWdVx84OBjklSOcMrDJxWrRTjHlVr3/r+vvHGNuv9f1+QUUUVRZgxm+/4TaSc6VdC0a1W3FyZIduQzNuxv3Y5A+7nPasttP1O3a1s00aScW+rG8e8SWILIjOx3AFg24BwCCB0OCeM9lRUcu3l/nf8zoVdrovx6K3f/gBWLpltLc+IL/WZ43hVo0s7aORdrFEZizkHkbmYgA9lU962qKvrc5+lgooooAKKKKAIbUZsYQCR+6XkduK5DwdaXlprGvSXviLUdQC6k8CW90LcLIwgibI2RKdwGRgELgdOprr7T/jyg/65r/KoU0fTItXk1WPTrRNRlTy5LxYFEzpx8pfG4jgcZ7Cjq35W/IHqreZxHhHxD4k1S+0u8vLfUPsephjMLprFbeD5GYCARyGYkEBSH3HGSduMVe0W71j/hJIhrGp6gIrvzPs6qlpJY3HBZfJdF84EIM/vODhsbuDXS2ugaPY6pPqVjpNjbX9znz7qG2RJZcnJ3OBk5IB5NR6d4X0DSL6S90nQ9NsbuUFZJ7a0jjkcE5ILKATkgH8KA7nP+DLO8tdb1177xJqF8BqTwJBdi3CyHyYm3fJErbgM8AhcDp3rtKzptC097251C2toLPVLiEwtqUFvH9oC8Y+dlOcYHDAjgcVStvD2pwXUUsvjHW7lEYM0MsNkEkH907bcNg+xB96OiXkg6tmRo17rK+I4zrGo6g0V15ht41S0ksbrguohdAJlIQZ/ecHDYJ4NUPCXiDxLqt7pl3eQaiLTVFczfaWsVt4PkZgIBG5mJBAUiTccZJ24xXYad4X0DSL6S90nQ9NsbuUFZJ7a0jjkcE5ILKATkgH8KktdA0ex1SfUrHSbG2v7nPn3UNsiSy5OTucDJyQDyaF5g+pzfgyzvLXW9de+8SahfAak8CQXYtwsh8mJt3yRK24DPAIXA6d67M/dP0rPm0LT3vbnULa2gs9UuITC2pQW8f2gLxj52U5xgcMCOBxWfH4Zv8AzF+2eLtYvbfOJba4gsfLmXujbbcHBHBwQaT1il5WDq35nK+DrnU9I0zwu9zrTy2N9ZS77V7eNYoFSPerKQPMyAOcuQcnAXgCfw14j1RvFOnw6nfalJaalZyXEbahHYxRSfNHseBYWMqqd+MSknDKCd1dfB4X0C1NmbbQ9NhNgWNoY7SNfs245by8D5MnrjGaSz8KeHdOnWbT9A0u1lWTzVkgs40YPgjdkDrgkZ64Jqut/wCv6/r0Hr/X9f1+OBot5rA8SRf2zqV+YrvzPs6BLSSxuRguvkvGomXCDP7zrhsFuDWZ4Ik1XT7Twks2ryXFnqNpIjWRgjWKEIm5ChC792BglnIOSQF4A7Gz8JeHNPuJ7iw0DS7Wa4Ro5pILKNGlVuWViBkg9wetOg8L+H7Y2ZttD02E2G42hjs41+zbjlvLwPkyeuMZpLRf15g+pesr601Kzju9Ouobu2kBKTQSB0fnHDDg8g1haHJqDax4i0661W5ukt5Y/s8skcIeEPEGwNqAHBPG4E+ua3bKxtNNs47TTrWG0towQkMEYRE5zwo4HJNZ9r4S8OWV3PdWegaXb3FwrJNNFZRo8qt94MQMkHuD1pPXYDlPC+oeIJP+EZudU1+a+Gs20omhNtDGkZVNyum1N27jnJKkk4VRgCz4a0Oa1vNbvLzVL7WDa6hJJHb3UFrhpREmJAUhVg+PlBBAweldJB4X8P2xszbaHpsJsNxtDHZxr9m3HLeXgfJk9cYzS6X4Y0DQ7iS40XQ9N06aRdryWlpHEzjOcEqASM0+ra7W/FP+v+AH+d/zOY0bVtWEnhrULjWX1JfEGfNsRDEsdqDE0u6IqofCFQh3s2d3Y4re0xWh8Y62swIadIJoWJPzRhShA+jBiQP74Per9poek2GoXN/YaXZW15dHNxcw26JJNzn5mAy3PPNTXFhb3U8M0yEywFvLdXKsu4YIyCOCO3TIB6gED8gMjw+pk13xFdRj/R5r1ERgBh3SFEdh64YbfqhHat+obS0gsbSO2tIxHDEu1FHYfXufc9amoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCKOC6hiWMLCwQBQxkIyB7bafsuv+ecP/AH9P/wATVuigCpsuv+ecP/f0/wDxNGy6/wCecP8A39P/AMTVuigCpsuv+ecP/f0//E0bLr/nnD/39P8A8TVuigCpsuv+ecP/AH9P/wATRsuv+ecP/f0//E1bqO4uIbS1lubuaOCCFC8ksrBVRQMliTwAB3oAg2XX/POH/v6f/iaNl1/zzh/7+n/4mrEM0VzBHPbyJLFKoeORGDK6kZBBHUEd6fQBU2XX/POH/v6f/iaNl1/zzh/7+n/4mrdFAFTZdf8APOH/AL+n/wCJo2XX/POH/v6f/iat0UAVNl1/zzh/7+n/AOJo2XX/ADzh/wC/p/8Aiat0UAVNl1/zzh/7+n/4mjZdf884f+/p/wDiat0UAVNl1/zzh/7+n/4mjZdf884f+/p/+Jq3RQBU2XX/ADzh/wC/p/8AiaNl1/zzh/7+n/4mrdFAFTZdf884f+/p/wDiaNl1/wA84f8Av6f/AImrdFAFTZdf884f+/p/+Jo2XX/POH/v6f8A4mrdFAFTZdf884f+/p/+Jo2XX/POH/v6f/iat0UAVNl1/wA84f8Av6f/AImjZdf884f+/p/+Jq3RQBU2XX/POH/v6f8A4mjZdf8APOH/AL+n/wCJq3RQBU2XX/POH/v6f/iaNl1/zzh/7+n/AOJq3RQBU2XX/POH/v6f/iaNl1/zzh/7+n/4mrdR3FxDaWstzdzRwQQoXkllYKqKBksSeAAO9AEGy6/55w/9/T/8TRsuv+ecP/f0/wDxNWIZormCOe3kSWKVQ8ciMGV1IyCCOoI70+gCpsuv+ecP/f0//E0bLr/nnD/39P8A8TVuigCpsuv+ecP/AH9P/wATRsuv+ecP/f0//E1booAqbLr/AJ5w/wDf0/8AxNGy6/55w/8Af0//ABNW6KAKmy6/55w/9/T/APE0bLr/AJ5w/wDf0/8AxNW6KAKmy6/55w/9/T/8TRsuv+ecP/f0/wDxNW6KAKmy6/55w/8Af0//ABNGy6/55w/9/T/8TVuigCpsuv8AnnD/AN/T/wDE0bLr/nnD/wB/T/8AE1booAqbLr/nnD/39P8A8TRsuv8AnnD/AN/T/wDE1booAqbLr/nnD/39P/xNGy6/55w/9/T/APE1booAqbLr/nnD/wB/T/8AE0bLr/nnD/39P/xNW6KAKmy6/wCecP8A39P/AMTRsuv+ecP/AH9P/wATVuigCpsuv+ecP/f0/wDxNGy6/wCecP8A39P/AMTVuigCpsuv+ecP/f0//E0bLr/nnD/39P8A8TVuigCpsuv+ecP/AH9P/wATRsuv+ecP/f0//E1booAqbLr/AJ5w/wDf0/8AxNGy6/55w/8Af0//ABNW6KAKmy6/55w/9/T/APE0bLr/AJ5w/wDf0/8AxNW6KAKmy6/55w/9/T/8TRsuv+ecP/f0/wDxNW6KAKmy6/55w/8Af0//ABNGy6/55w/9/T/8TVuigCpsuv8AnnD/AN/T/wDE0bLr/nnD/wB/T/8AE1booAqbLr/nnD/39P8A8TRsuv8AnnD/AN/T/wDE1booAqbLr/nnD/39P/xNGy6/55w/9/T/APE1booAqbLr/nnD/wB/T/8AE0bLr/nnD/39P/xNW6KAKmy6/wCecP8A39P/AMTRsuv+ecP/AH9P/wATVuigCpsuv+ecP/f0/wDxNFW6KAIbu6SysprqUOyQoXYRoWYgDPAHJNY1lePFp8/ibXb5ILT7MZkhil3Q20GN24lSRI5ABLDIHRe7Pv1hXHhWCe11PT1uJItL1KGRJbRAP3Tv954z/DnJJXBBOCACW3A9NLkmka7NrfnRSaPq2kfulkilvI4wJFbOCu1nAYYztcBhkZXrWf4Vvbm10HVpdUvL3VXsr+5TzWiDzSIjYACRKATgcBVH0rQ0vT9ft0kOq61a3kixeXb+TYGFAf78i+YxduB90oOvHIxkWXhHWk0PW9N1HX7VxqjSypNZae8DwySHLH5pn3L7cHGeaNm7dvxuhdFfv+jNPTvFC3ct5DqOk6ho8tpbrcvHe+UxaI7huBhkccFDkEg+1JpPin+0oJLm40bUtOtFtvtUd1c+S8c0eM5UxSOenOCAcGsTQPh9deH9Sur3T77SNOe6tTA8Wk6GlrFuG7y5NvmMSQXJIJOcLjaAQ1zQ/CF9pNzqN19u0u2ubyFlB0nSjaRmVjnzpUMriRweh44LA5yMH+X+f/A/rY/r8v8Ag/1vp6F4ik1xsnRNSsIHhWaC4uTA0c6HoVMUj44IOGwcGtO9the2E9qZHiE0bRl0CllBGMgMCPzBFc/4Z8KXGh6rd39zPpYa5U74tJ0w2UcrlsmSVTLJvfsG4OC2c5GOnoaTVgTdzKvJ7Xwl4Tkmt7OaSy0q0ytvblS4ijXou9gDhR3Pb1qjZeM4Ll5FudJ1Wxb7K15bpPArPdwrjc0aRszZG5PkYK/zD5euLfi23urvwbrFrp9rJd3VxZywxQxsil2ZSo5chR17muftvCGsatpXm69qzwXh0x7G1WG1WJ7RZNhcyFZHEj5jQEqyrgHAGcgu223/AFv+tgskl/Xb/gmifGohsdTmv/D+rWU2m2gvHtZvs7SSxfNlkKSsnGxshmB9qdZ+ObGf7U1/YahpUNvZfb1lvYlAmt+cuqqzMMYHyuFbkfL1xgW3wwurOLVBYahomm/2pYtZzxaboIt4f4gr7RKSSA7Zy3JC4wAQ2vc+DLrUbo/2pqkElpLox0ueKCzaN2J6yK5kYLyOFKtj1NH9fn/wPv8AuP6/L/g/d99Ww8T38/jK6kvLHWrKxj0g3KWFzBE7MQ4G+NYSzEkcbWO4H+EZ52tO8ULdy3kOo6TqGjy2luty8d75TFojuG4GGRxwUOQSD7VjTeC9fv7i5m1TxPbs8+mvp4NpppgKAkMHyZm5zncOhGANvJLNA+H114f1K6vdPvtI057q1MDxaToaWsW4bvLk2+YxJBckgk5wuNoBDHS3r+bt+n/ADrf0/JX/AFN/QvEUmuNk6JqVhA8KzQXFyYGjnQ9CpikfHBBw2Dg1p319baZp9xfX8ywW1tG0ssrdEVRkn8hXLaT4O1LTG1S4h1LS7K8vrd0STSdI+zRiZufPljaVxK4OME44LA5yMb11o/8AafheTR9XuXuDcWn2e5uI1EbSErtZwOQpJyccgUPbT+v6+QLfUpWfi2OWzu7vVNI1PRrW1txc+dfxJtkj55Xy3cg8fcba/I+Wo7Xxc9w0sMnh7V7W9EH2m3s7gQLJdxggMUPmlQQWXKuykbhxzSDw3qWpaTead4p1iG/t7i3Nuos7L7MQD/G2533OMDBG1Rz8voyLw7rbXh1K/wBZsbnU7e2e2sZV01kihV2Uuzx+cS7HYoyGQDHAGTQ/L+t/+B5foK/X+v6+/wDVumePbHU7dLxdN1S301rJ7w6hPAvkIECl4yVYneN3ptO1trHBrQ0nxIup3v2O50y+0u4aIzwxXojBniBALrsdsYLLkNtYZHFVNL8L3EfgZ/DPiC9t9Qga1NmJLa0Nv+52bOQ0kmW6nPA6ceudoPgF9Bt75rGTQrC/mtGt7e90rQI7VoyRw8g3t5hBCnaNq8Hjpg6/1/Xb+tQ6f1/X9fI6+7mkt7OWaG2lu5I1LLBCVDyH+6C7KuT7kD3rh/C+r+J9RNzrl5b60bdRMo0mSOw8uUiQqohdZN6soU7vNfBJOO1dpHDex6OkBvI5b9YAhupYPleULjeY1YcE87QR6ZHWsbQ9E1/SPD9xYyaxps9xuZraddMkRIyzlm3p55L8txhlx70npewbpEOl+O7bVoI7m20XWvsclm10t0LQOhKhd0QCMzGT5sAAFWIYKxwaJPHKWtlqE+peH9YsZLCBLl7aVYHkkiZiu9PLlZTjacrkNxwDkCnWPhfUovAMnhy+1mJ5Ps32WC8s7RoDGgQKNymR9x4OSCuQccda5+H4XXlpHqH9m6joeltqFstvNFp2gCCE7WJVtgm3E4Zs5brtxgAhq6/1/X9fMOn9f1/XyN2z8f2c93LDfaVqemJDFPJLNdpEUQw48xP3cjEkKytwCCDjOQQNHSfEi6ne/Y7nTL7S7hojPDFeiMGeIEAuux2xgsuQ21hkcVhyeA7y9ubhdW1W0uLK6N6JoIrBkYpcKo2hjKwBXbnO05z0FGg+AX0G3vmsZNCsL+a0a3t73StAjtWjJHDyDe3mEEKdo2rweOmEvPt+P/D/AIB/n+H/AAxs+NQx8C620c08EkdjNIktvM8ToyoWBDIQRyB0PtXPWc8nhPxHp1tHc6ne6fqOlT3csE8819KksPlHMZcs/wAwkI2A4yBgAk56XVdIvtT8G3GjnUYxeXNn9mkvZLbcrErtd/LVl68kANgE98YrF/4Qe/vbe6k1nXRLqD2Dafaz2VqbeO1ibBYhDI5ZmKruJfkKAAvJJs3/AF0f62Ho0r/1t/wf6ZqWHieW9kvLeXw/qlle20C3C2dw1uXnViwGxklZM5UjDMvbtzVXw14vuta0G61LUPD+oaelu02OI5jMEkddqLE7uWAXBG0ZP3ciqnhbwFJ4a16TUoJ9Ito54BFPaaToy2Ub7SSjffY5+Zs5JzhcbQCGsQ+EdRj0HVNGOuKlndCcWhgtCksBlkZyXYufMwWwNoTjPcgge2glvqVtb8RS6n4T8R2s2m6toV9a6W90gmmjSQja+10eCVsYZORkH2wao+FprZbue+0IeKLtrSwj8+x1C4uibppCcFFvWUKV8s4YEKQzDqKZb/DC7s4dUGnahommHU7FrOeLTtAFvDj5gG2iXcTh2zljkhMYAIbs47C+g0NYYLmzXVBbpEbxrRjGxXuYxIGxycLv4z1o2Ta3/wCHDey/rp+tzI0vx3batBHc22i619jks2uluhaB0JULuiARmYyfNgAAqxDBWODRJ45S1stQn1Lw/rFjJYQJcvbSrA8kkTMV3p5crKcbTlchuOAcgU6x8L6lF4Bk8OX2sxPJ9m+ywXlnaNAY0CBRuUyPuPByQVyDjjrXPw/C68tI9Q/s3UdD0ttQtlt5otO0AQQnaxKtsE24nDNnLdduMAEM+v8AX9f18w6f1/X9fI3bPx/Zz3csN9pWp6YkMU8ks12kRRDDjzE/dyMSQrK3AIIOM5BAtW2tJ4gWfSbqx1HRp7m2Z4hdLDvli4UyKA0ijG5cq4BGRlaypPAd5e3NwuraraXFldG9E0EVgyMUuFUbQxlYArtznac56CrPhHwPD4Yu5bkwaEsrRCFX0rREsWZcgkyMGYseB02r146YSs9+34/8P+AXa1Xf/hjoYdMtrbRY9KtVe3tYoBbxrFIytGgXaNrA5BA75zVDSL+7h1OXRNVlW6uoIhNHdRgDzoiSoMij7j5BHZXwWXoyJrXCzPbSrbSLFMyERyOm9VbHBK5GRntkfWqulaVDpNq0cTyTTSv5lxczEGS4kIALuQAM4AAAAAACgAAAO93dholZF6iiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADZTIIXMCq8oU7Fdtqk9gSAcD3wfpWB4W1zWNbN8dV0qxsI7W4e2Btr97gu6NhuGhTA9Dkk+grflkWGF5XDFUUsQiFmIHoBkk+w5rzQXUOq/D7xnZvpOqSNO95NFBc6NcoZhIT5ZVXjG45wcDJHU4qb2b9H+a/4JVr2Xn/n/AMA9NrPn1zToNDutXa5U2NqkryyryAIyQ/1wVI/CuL8P6JpFt4qS0tNCmistS0Jftvn6bKI7l93Sd3TDybS2RIS/Jz1rP0zwpaN8PfEvh3RPDw03V5oruKWUaebVJcyyGFRNtUSDaRgqWCjqRxmpKy+/8G0TF3av5fikzudC1TXNQuH/ALY0BNNtmhWW3lS+WdjknMci7V2OBgnaXXk4Y45g0bxdDr+ta9p+l2xf+yDGizysUjuJGDZCnaflDJt3DPIbjjnl9I0eO/1CWXwXp914YE2lvDfy3mmywl7hnQoXVihmkUCbMqsT8/3zkUzwWNU0vx9rsF5gWENpBEn2bw3d20UghDLiJ2dl+XOMDdvyNvQ5bt/Xr/X3iV9zrPC2uaxrZvjqulWNhHa3D2wNtfvcF3RsNw0KYHockn0FdDXmQuodV+H3jOzfSdUkad7yaKC50a5QzCQnyyqvGNxzg4GSOpxUKaP9hury38H6Xe2F3qHhonz1s5oPOuc5QyzMoHncty7bwSc1Keiv2X32bf5WH1fq/uul+tz0BdaDeKW0Q2kyOtp9qFwxTy3G4LhcEtkE85A7Yz2068osrG2Gq6ingTQL7RZLjw/LDFNJpU1ohusgjcWVfn6fOT83Zm2nEnhPToLMX9zeWP8AxLPsDR32nWvhK5sxcOxXl0keQ3D4DDKK3BOW5GX0+/8AN/5IOv3fkv8AN/cep1Da3trerI1lcw3AikaGQxSB9jqcMpx0YHgjqK4H4eabZaPrEtqdCmtbn7DEbS7bTpEWO1OSts0pjUeYhPzAnLZGclSB2GhS2s0N6bLSZtLC3syyLLbCHz3DfNMAPvK55DdT1p9f67i6f12NNiVQkKWIGQo6n25rL8Pa4dfsZ7hrC4094bmS3eC5ZGdWQ4OdjMvX0Y1qMwRCxzgDJwCT+QrhfDU1zrOi+IrLTv7Q0i7nvriWG4v9KuIQEkbKsocRluM8BgR144qVe79Pxuv+CN7L1/R/8Avw/ELTZZfE7+TN9j8ORq8tyBxP8rl9gOAQpQrnOCQfTJt6N4h1C71r+zNZ0y2s5JbX7ZayWl6bmOWMMFbJMaFWG5OACCDweK4zwxc6r4f8X+I2uoJLiytbCFYobDwzd263HkK4CQszspxkAAFt+QVwAa29MurnX47+Oze/tdXvbU+bqF3pNzbw2gDAJDGsqxlxhnOQwbILHGVAfprp/mHTXT+kaNl45ttRvPEsVhYXV0mgop3QoWa8fa5ZYlx82ChUHPLZHbmzomvajeavPpeuaXBYXaW6XUZtrtriOSNiV5LRxsrAryCuORyeQOJ8NPr+jeLvEiQWaXq29hFHa20GhXOnw3LQq6rHHNI7RqBkDPzbsgrwDnoPC7NP4yvLzSbbU4tNubXdetqkE8bfad/yLGbhRIUCl/lH7tfl2gEtlrf+uz/r8OoPb+vL+vvfQ7Wis7xDDf3HhnU4dGfy9QktJVtnBxtkKnac5GOcc5FeV2uiE+GPEOyx/wBHk0eWKXT7Twpc2Xn3DY2MwkdzPICD8yBupJbpU33Gle3mey1DaXlvf2/n2cqzRb3TevTcrFWH4EEfhXA+H9E0i28VJaWmhTRWWpaEv23z9NlEdy+7pO7ph5NpbIkJfk560zwlpHhzR/Deq6fd+EvJKSTjUFXQnK3Cee5iUAR/6QNpBATeFA5xxTlovv8AwbRKd/w/FJno9U9Oub65FydQsBZGO5eOEeeJPOiH3ZOB8u7+71FcZ8PfD2hR+HLHVH0m8j1O2sPsVy97ZTwylCqFotjqu+MbVCgAqMHHJbMPhhWbwT4l0rwtp95pFx5t2+nxy6ZNZIok3eUU3og69geO+KHo2vL9V+n6+o97ev8An/X3HotFeYeDNOks31C6giltbddPdbi107w3PpjyynBDEzSt50wAYBlz1OW5GZ/BMFnolxqVxpug7khsyzXVvoEulTzbTlY3Wbas8jYJ3rtAOchdwo0W/wDW4av+vQ9IoqrpeoRatpFnqNusiQ3cCTosq4YKyhgCOxwaZrFrd32j3Nrp14tlczRlI7hoy4jz32hlPT0YH3oldXQKzMzQfFtr4h8Qa3ptlDJ5ekvHGbluFnZt27YMcqpQrnuQfTnoK818DRarY/ETWrS5KLZLbW8EZh8PXVnC/khlxHI7sgC59W3ZBXgGvRbq1t721ltbyCO4t5kKSxSoGR1PBBB4IPpQ9tAXmJaXlvf2/n2cqzRb3TevTcrFWH4EEfhU1eZeHtDTTvBmu6V4X0JtI17Fyr3Eenm1EmZpDEqzFVEnyH5SpIXjJXitLwrp+nw+KY5/CWiT6Lpi2Tx6gk2nyWnnzbkMXyuFMjqBLmQAg7gNx7C1dgOy1LULbSdLutQvpPLtrWJppX/uqoyT+Qrn4/FOr2mmX+peIfD32CygtBcwGC9WeSTOf3TptXZJ93gF1ycb+ObvjXSrjXfA2s6XYgNc3dnJFEpbblipwM9snvXG6fouj6jNdyaV4Z1Gw02XR5otWtXspLWa7nJRox8+3zZVxL+9BPLD5zml3/ruPt/Xb/g/0jon8Y3mlR3i+KdJisriCya9hjsbs3KzopCsgZkjw4ZkGMY+cYY84H8Y3mlR3i+KdJisriCya9hjsbs3KzopCsgZkjw4ZkGMY+cYY845nT/D417UtQ1XUx4j1XT4tGksf+JrB9muZ2dldkjiCRAFRGvz7QWZvvHaMGn+Hxr2pahqupjxHqunxaNJY/8AE1g+zXM7OyuyRxBIgCojX59oLM33jtGG/Ps/1t+S8hL/AC/S/wCp0z+MbzSo7xfFOkxWVxBZNewx2N2blZ0UhWQMyR4cMyDGMfOMMecXtI13UZtXOleINMt9PvHtzcwfZbw3MciBgrDcY0IZSy5GCMMME844vT/D417UtQ1XUx4j1XT4tGksf+JrB9muZ2dldkjiCRAFRGvz7QWZvvHaMaHg/S7i+8af2/Jca9dW9rpps459ct/s0ru7q7KsQjjAChFy+z5i33m28Nb2fnf8bfoJvTTy/S/6noVFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFe+v7PS7GS81O7gs7WIZknuJBGiDOOWOAOTUGk67pOvW7z6HqllqUMbbHks7hJlVsZwSpIBwRxVTxn/wAiHr3/AGDbj/0W1cvql3/ZPjLSb6zNtHN/wjl090Z5PLRljaExGRgpOAzPjgkbmwKFvb+tm/0HbRef/A/zPQqK4rwx4k1nWb7UtNnuIWuIrSOa3uZNBu7BUZi64aGd90gG0HKsvccdab4W1PxBB4Jv9W17VdNvDG10YS1vJbKhSaQfvH3yfLwMBVyBx81D0VxLV2O3orj/AAf4m1LVtZvdP1ORZ/Jt4p0lGi3WmkbmdSuy4Ziw+UHcDjqMV0GvasuheHdQ1V4WnWyt3nMSkAvtUnGT0zih6K4LV2NCiuVl1fxB4e0PUdV8SNpl7HBaefFDYRSQsrjrGSzPuXlfnAXv8tPsL/WYdfh0TxQ2nXv9oWcs8TWVq8Sx+WUWSNw7vvB81cN8ucHKjijrb+v6/rsCaZ0kc0cu/wAqRX2NsbawO1vQ+hp9cDpBbw54B8TyeHYbOzOn3t9Lbwm3zCgRi23YjLgEAjgjGc+1XvEXiHWtLk1H7AbBxDpqXluk0D/f8zayswfkEdCANp5+bpQtbW6pP8Lg9L37tfc7fqjsKK84ufFni2yi1EzzaLIbW2vjGyWUq7pLfYwYgzH5WViu3OQRu3c7Rt6RrXiE6vJZ6umnXLzaYL+3iskeMxtuwYmd2IfquH2p0Py88K/+f4N/krht+X4pfmzrKK5Twlrer6lfzwazc2vmJEGNoNKuLKaJs4PMrssyDpvT5cjgnIrq6oCqNQjbVTYRpI8iRebI6gbI8nCgnPU8kAZ4U5xkZtVzmgLcPD4gWCRItQOpTAyTx+YqnavlFlDKSPL8vjIOO4rG0DXdd0zwDqOveIr211UW7XLRRW9o8D5SeRcMxkcbTgAYUbR/exS6J+Sf36h1sd5RXK22o+JLbWU0bV7nS5Lu/spbi0uLWylWO3eMoGWRGlJkH71SGDJnBGBxVLwtqfiCDwTf6tr2q6beGNrowlreS2VCk0g/ePvk+XgYCrkDj5qOlw3djt6ZHNHLv8qRX2NsbawO1vQ+hrkPCfiK/wBb1S/0vWDHdJHbRyhzol1p2Q7OrIY7gsXHyj5gcckEVZ8A2Vrp2l6paafbQ2ttDq90scMEYREG/oFHAFC3t5X/ABS/UT2+dvwbOppqSJIWEbqxRtrbTnafQ+9Kyq6FXUMrDBBGQRXFeGXt/DXhPXW03TT5Fnqd35NlY25P8fCqkak4z/dU/SlfV37X/Ff5j6L1t+D/AMjskuYHuJLdJo2miCtJGGBZA2dpI6jODj1wakrzL4cXtuPHniWItqc97exWtxcT3Wm3NurSBXDcSoPLUfKFUkZVeM4Jrvde1ZdC8O6hqrwtOtlbvOYlIBfapOMnpnFN6AtXZGhUdxbw3dtJb3UMc8EqlJIpFDK6nqCDwRXMy6v4g8PaHqOq+JG0y9jgtPPihsIpIWVx1jJZn3LyvzgL3+Wn2F/rMOvw6J4obTr3+0LOWeJrK1eJY/LKLJG4d33g+auG+XODlRxR1t/X9f12BPqdJHLFLuELo/ltsYKQdpHY+h9qfXA6QW8OeAfE8nh2Gzszp97fS28Jt8woEYtt2Iy4BAI4IxnPtV7xF4h1rS5NR+wGwcQ6al5bpNA/3/M2srMH5BHQgDaefm6ULW3mk/wuD0vfu19zt+qOworzi58WeLbKLUTPNoshtba+MbJZSrukt9jBiDMflZWK7c5BG7dztG3pGteITq8lnq6adcvNpgv7eKyR4zG27BiZ3Yh+q4fanQ/Lzwr/AOf4N/krht+X4pfmzp7qc2tpLOIZZzGpbyoQC7Y7AEjJotbqG9s4bq0kWWCZBJG69GUjINcz4S1vV9Sv54NZubXzEiDG0GlXFlNE2cHmV2WZB03p8uRwTkVb8G5/sm82/wCo/tO8+z9fuee/TPbO7HbGMcU/6/QP6/C50FFUtMtb61juRqWo/b2kuZJIW8hYvKiJykXH3to43Hk96u0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBU1XTLXWtKuNO1BZHtblDHKsczxMynqNyEMM9Dg8jisy18E6BaWF5aLZyTx30YiuHu7qW4leMDATzJGZwoySACACSRgkmtySRIo2klZURAWZmOAoHUk1leG9VbWbC4vBqGl6hbNdSC1n0uXzIzCDhQzZIL9c44o7h2ItN8G6LpWqLqVrDdPeqhj+0XV9PcOy9gTI7Zxk4z93c2MbjkTwdoaQ38P2SR4dQDieGS5leMB2LMI1ZiIsscnYF5APUCq2leMbTW/F02l6Tc6dfWcVqZjdWd6JmEgcKUZVGEIznqSc9B36WjdJhs2jD03wboulaoupWsN096qGP7RdX09w7L2BMjtnGTjP3dzYxuOdmeCK5t5ILmJJoZVKSRyKGV1IwQQeoI7U+ih6qzDbUxtN8J6PpcM0VvbzTRzReSyXl1LdAR941ErNtQ/wB1cA4HHApdN8K6VpPnmzjud88flNLNezTSIn9xHdyyL3wpAB5rYooAwtL8G6NpEF7BaR3kkN8GFzFd6hcXKybs7jiV2AJyckcnvVM/Djw2UlVodQczQ/Z5JH1e7Z3j3Bghcy7ioI4GeMtjG456migDmZ/h74eufN8+K/bzjMZB/at0N3nACQcSdCFHHQdsVb/4Q/R/tAnaK6dxYf2d+8vp2BgxypUvgn/aI3e9bdFAGTpPhnTtFuHuLM3sszp5fmXuoT3bKuc7VMzttBOMhcZwM5wK1qKKAKo0+NdVN/G8iSPF5UiKRskwcqSMdRyARjhjnOBilZ+F9IsXvDBbOyXu8TQzzySxYckuqxuxVAxJJCgA984Fa9I24IdgBbHAJwCfrSGZekeGdL0OaSWwjnMsihPMubuW4ZUHIRWkZiq5/hXA9qgTwdoaQ38P2SR4dQDieGS5leMB2LMI1ZiIsscnYF5APUCneGNYvdZ0+6l1S1t7S4t7yW2eK3maVBsOMh2VSc9fuj6Vh6d49udTl8UTWelSXFppNvFNp6xAtLqAZXO5QM/KxTC4GSPm5yBTe1/L8GJb2Xf8TXsvBOh2F8b2CK8a7aJoTcz6jcTSlTnje8hORltpzldzbcbjmfQvC2meHHuG0v7cDcMXlFzqNxcgsTktiV2AJPUjk96paNqeuL4ibTNcksbpJbIXkU1nayW5h+fb5ciu75JzkHK/db5eKpaP40vtevPEq6Xpizw6dBFJpgMgQ35ZHIbcThUZkAUnt83QijVa/wBb/wCYaN2/rb/I7FlDoVOcEYOCQfzFZGg+FtL8NtctpQvAbp/Mm+06hPchn7tiV2wT3I5PGelU9B1LWz4gu9I16SxunitYrlbiyt3gEe9mHlujSSc/LkENyM8cZO7e31pptlLeajdQ2ltCN0k88gREHqWPAo21DfQzrHwtpena/d6zai8F9eDE7SahPIjjOQPLZygxk4wBtBIGAa1Z4Irm3kguYkmhlUpJHIoZXUjBBB6gjtVOw13SdVuLm30vVLK9mtG23EdtcJI0J54cKSVPB6+hqvB4s8OXVld3ltr+lzWtkQLqeO9jZIM9N7A4X8cUdLB1G6b4T0fS4Zore3mmjmi8lkvLqW6Aj7xqJWbah/urgHA44FLpvhXStJ882cdzvnj8ppZr2aaRE/uI7uWRe+FIAPNWtP1zSdWuLm30vVLK9mtGC3EdtcJI0J54cKSVPB6+hqe9vrTTbKW81G6htLaEbpJ55AiIPUseBQ/MDJ0vwbo2kQXsFpHeSQ3wYXMV3qFxcrJuzuOJXYAnJyRye9Uz8OPDZSVWh1BzND9nkkfV7tnePcGCFzLuKgjgZ4y2MbjnTXxZ4daO9kXX9LKaeQLxheR4tiTgCQ5+TJBHOOauf2jay3c9la3VtLfwxCVrbzhvVWztLAZKqSOuPzo2D+v6/Aw5/h74eufN8+K/bzjMZB/at0N3nACQcSdCFHHQdsVb/wCEP0f7QJ2iuncWH9nfvL6dgYMcqVL4J/2iN3vSeGtY1HWNLvJdQtLW3vLe7mtvJgnaSPKHA/eFQTk99o+lL4W1e+1mwupNVtbe1ube8ltmitpmlQbDjh2VS312j6ULXTyv8v6f4ht99vn/AEhLPwlp2nJcGyn1JZ54vJ+0z6jPdSRKeoRpmfZnjOMZwM9BjXtbWGys4bW0jWKCFBHGi9FUDAFPkkSKNpJWVEQFmZjgKB1JNYekeI7efRLzWNQ1nRJdNS4k8m9srkGBYAQF8yQnbv8AXBxmi4WNHTNHsdGjuU02DyVurmS6mG9m3SyHLtyTjJ7Dj0q7WZD4m0G4W+a31vTpRpwzelLuNvso5/1mD8n3T1x0PpWVB8RPDV94b1PWdK1S21CHTYpJZ4raZHkAQsBlQSQG2naT1BBo2Q1qzqKK5Xwlruo6ve3i3ureHb+OFF8yHSZGMtlMS26KXLsGwBjdhCSrfIOy+FfF8nibxBrdvHaiLT7IQGynJ+a6Rw+Zev3CV+X1HzdGFOxN0dTRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUANkYpGzKjSFQSEXGW9hkgfnXC6fpus6t4T8UaTdaNd6NPqMl09vJeTQMrCbO0HyZHIx3yO/Ga7yilbf0t/X3Dvt63OL0RNVn8bQ39x4WuNIs00r7Hvlmtm2srhguI5G+TH3T9cheM9pRRVdLf1vf9SbWf9drBRRRSGFFFFABRRRQAUUUUAFFFFABSMSqEhSxAyFHU+3NLSMyohZyFVRkknAAoewHFaBp+p6po2v6ZrGl6noC315NNHOZbV2aORs4G15ADjghlxg9+2VommeKND8X+I7/7NrupQtaIlmLqTTY47x4gwUHytrJnI2nCjBO7nArvtK1nTdcs/tejX1vf2u8oJ7aQOjEdcMOD+FNXXNMa81C1F7CJdMRHvQzYFurKWBZjwPlBPXgYJ6ijZfL8LaBu/nc5jTbDU9Ys73T9S0zVtJN9AxvNTuJLQyyvlQqRKkkqqgXeNrDAHqSxOVoui+LdM8XeI7m2OqTCW0SOwn1U2Itp5IwwXetuBIq/MNuAvBbdziu10jxPpet3U1rYyXC3EKCRobq0mtnKEkB1WVVLLkEblyPepjr+lC51KBr6FZNLjWS+3HAt1ZSwLHoPlBPsMHuKPP8Ar+kC7HPeGtOvl8U3GpR6FJ4dsZbZhc2jtCPtl0zhvP2Qu6ggAgsTubcAchRWz4tt7m78G6xa2Fq93c3FnLDFDGyKXZlKjlyFHXuafo/iXTNdmnhsJLhZ7cK0kF1aS20gVs7W2SqrFTggMBjIPPFatElePKxxdpcyPOr7w5qeosbCx0eXS7ebw19hWZngWOCTIIhYI5bAAIJVSvPBNO1jTdZ1q2vbq28N3GmGHRLnTY7IzW2+6eXZsClZCgjTacFmU/McKO/odFEtfx/G/wDmxR91pry/C3+RxFnoJuNfsre/8L7NHOgpaSpOtu8KMHVhC0Yc5xjspX0NT614I0PT/DOrnwt4U02LUrixmt4vsNpBBI5dSu3edoA5BOSOldhRRL3lb1/Ft/qEfdaa8vwSX6HntxoWpXMrWlnoMljby+F209HZ4FjhlP3YiEckY6ZUFfQ1paXc63ceKPt954XvrG2XTfJXzbm2ZzIrbtuElIAOcKc9Qd23jPYU2SRIo2klZURAWZmOAoHUk0X1v6/jf/MVtLf10/8AkUcr4Pk1WCDVxqPh3ULAyXk93CJpbZvNDsSEHlythv8AewOetP8ABLamn9qR6poN9pYmvprqJ7mW3cOsjZA/dSuQQOuQB6E1tabrulazpz6hpWoW13ZIzK1zDIGjyv3sOOCB6g4pdJ1rTdeszeaLfQX9qHMYnt3DozDrhhwfqKFo9O1vlp/khvX77/PX/glyRikbMqNIVBIRcZb2GSB+dcBbwa5ceCvFllL4Z1C2ub5ruS1ilntT53nZCqCsxAIzzuIHoTXoNU9O1ay1YXJ0+Yyi1uXtZjsZdsifeXkDOM9Rke9Kyd/NW+Wn/AGnaz7P/P8A4JzejafeWvizTpF0GaxsYtCS1L7oAkLhgRFtRyeACPlBX0NU4dA1XUvAmueE7vT3svNS7SK9mkjeKcyyyMhVUYttww3bgp9Aecd5SMyohZyFVRkknAApyd1r5/i2/wBRRXK9PL8El+hwkGg3/iS6je+0i58LRQaS+nOIpbd2fe0ZxHtLqY1EZA3qPvn5RzUXhHRNe034iazcag2uS6fNDFFDcXh08Rz+XuGSsIDj73y4VeCdwziun0XxboviC7lttKupJZY4lm/eW0sQkjYkLJGzqBIhIOGQlenPIq9b6tY3eqXmnW1ykt3YiM3MS5zFvBKgnpkgZx1xj1FP+vx/zYrK1i5RRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZ3iHUBpXh2/vmuVtfIgZhM0RlCHHB2AjdzjjIz61xejeItZs77XLHUrq/Fxbaat1bproszIsh83tZZyhCZwRu+U4r0KeCK5t5ILmJJoZVKSRyKGV1IwQQeCCO1Yp8E+G00+azstFsdPjmhkgL2NukDokgG8KyAEZwM+uBml3H2/rscR4b8VaneaZruu2niC61iDTNOMiWE9xpsxafa7ZP2QcJ8qhQXU8NkHg1v8Ag/U/EE+rLDqseoyWdxaG4WfUnsA2/coAiW1ckxkMTlskYX5jmtnS/DTWGqf2hf6zqGsXSwmCKS9WBfJRiCwAhjQHJVcls/d4xk5uaX4f0bQ2mOiaRY6cbghpjaWyReYRnBbaBnqevrVaXv8A11/r8Cdbf15GhRRRSGFFFFABRRRQAUUUUAFFFFABRRSMquhV1DKwwQRkEUAcholzeW2g+I5tJtDfXseq3flW6soLPv4HzMo75wWH1rlvCtrbLr3jDTNb0LUbOxurGB9Sur+e3UsSkm95GhmJBfJIK8ALj5QAK9G0jw1oWgNK2g6Lp2mNMAJTZWiQlwOmdoGcZP51F/wh/hr7Vd3P/CO6T9ovVdLqX7DHvnVzlg525YE9c5zStZJeSX3IOt/O/wB5kGS7E0usW1hLJqX2B4dK053HmtCGQs8hdlAYsYztZgQAMkMWA5XwrcWmi674wXXtBv7Ww+wwT6ncaiLaXzPklMjyrFI+4vk8KCMDGAMCvRdJ8L6BoE0kuhaHpumSSrtkeztI4S464JUDIpbbwzoNlqk+p2eiadb39xu867itI1ll3HLbnAycnk5PNP8Ar+v1Bf1/X5GHpUksHxHnt754bqW50wS2sltEYVtrdJcCJ4yWO4l878/NtICrt+bX8W3F1aeDdYutPuntLq3s5Zopo1VijKpYcMCp6dxVjSdA0fQY5I9D0mx01JW3SLZ2yQhz6kKBk1ZvbG01Kyls9RtYbu1mG2SCeMOjj0Kng0paxsv6/r/gjjpK7/r+vw2ODn1vX/Dq38tzqb6y/wDYZ1FY5reONIZQ2DsCAN5eGzhmZsL97rSavqGuaFBfWkPiW51OSbQ7nUUu2gtg1pJFt2lQsYUxvuIAYMfkOGPOOzt/D2i2d7DeWmkWEF1BALaKeK2RXjhHSNWAyFH90cVFB4U8O21hdWNtoOmQ2l4c3NvHZxrHOfV1Aw3405a7ef62+66+4UdGm/L9P6+ZgaZL4jj1prB9fW8mvNKW8R7uxQxW0u8AhEjKMUIb7rOzDA+brmXWl8X6d4Z1e8uvEGm5t7GaWJrHSWhkSRVLKcyTSqRxggpznqK37bw/o1new3lppFhBdQQC2initkV44h0jVgMhR/dHFWr2xtNSspbPUbWG7tZhtkgnjDo49Cp4NEtVp5/m7fgENHd+X5I4C9vvEWm2uqJL4juJ5m0BtSjlFrAn2aZDyIxsPyHOMPvIA+9nmums9Rmk8cS2Y1EzQNpkdwbXEeImLkbhgbvmAPUkccY5q9D4c0S2uo7q30bT4riK3FrHLHaorpCOkYIGQn+z0qGy8I+G9O/5B/h7SrT5HT9xZRp8rgBxwvRsDI74Gad9b+v62/NfcK2lv6+z/k/vKng3/Uaz/wBhi7/9Do8G/wCo1n/sMXf/AKHV3TvCfh3R1uF0jQNLsFuU8ucWtnHEJV/uttA3Dk8H1p2k+GNB0CSSTQtE07THlAEjWdpHCXA6AlQM0o6W9Lfl/kN639b/AJ/5mlIpeNlV2jLAgOuMr7jII/OuJj1DV4vh34llbWbmW+02S8SC+eKHzMRZK5URiM9MH5a7aSNJY2jlRXRwVZWGQwPUEVj23gzwvZWlza2fhvSLe3vFCXMMVhEqTqDkBwFwwHvUtPX0/r+vMaaTXqY2kNrf9utpl/4hubr7dpIuhKttBGbWXftJiAQ/L83Ak8wjaOTznnFttRi+C/iMvr2oalc3FtqHlw3Cw5QLNKrMvlxqxzkZyT14x0r0W28P6NZ3sN5aaRYQXUEAtop4rZFeOIdI1YDIUf3RxUlno2madeXV3p+m2lrc3jB7maCBUedueXYDLHk9fU1Utfx/N2/AUbxd/T8kchDqOuaVepBpmov4oW90l7y3iEcEaxOrxqnlMuwGNhISA7E4j++cmqHw7E1l468RWjaFqdo0sFrLc3N69sWeXEhLyeVK2WckkbQQAMfKABXeaXoOj6H539i6VY6d9oYNN9ktki8wju20DJ5PX1qO08NaFYatNqljoun22oT7vNu4bVElk3HLbnAycnk5PNO+v9f1/wAMTaysadFFFIoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAgvbyDTrC4vbx/Lt7aJpZXwTtVRknA5PA7Vz1l44Se9uYdQ0LVNKjtbL7dLcXbWzIsJ3YbEUzsc7G429ucZGdnXYryfw/qEWlgG8ktpFgzKY/nKkD5hyvPcVw3hPwhNFZ6po0+kXmn6JqFq8dyl9Bp0UryMNoMf2IbSNu7cZBnOzH8VLXUell/Xb+v+GOhk8cRW9heXF9omqWkltaPepazCHzbiBMbnTEhAxkZVyrcjinWfjmxn+1Nf2GoaVDb2X29Zb2JQJrfnLqqszDGB8rhW5Hy9cY9j8NfsOj6ra27eH7O5vrJrJLrTvD6WxCsMM0gWTLn2BRc84PGNC58GXWo3R/tTVIJLSXRjpc8UFm0bsT1kVzIwXkcKVbHqaf9fn/wPvfyXT+vL/g/1vVsPFN1J4xu5tUh1TStMh0g3ZttQSHaoDjMq+UWbkZyrHcMfdGeda28WNcebE2g6pBeCE3FvZTeQst1GCAWT97tGCy5DsjDI4rOHgvVNQvbiTxNrdpf291pkmmywW2nGDMbHO8EyvhuueCDxgLg5b4e8CS+HFuptP8A+Ectb54BDDcWXh5bYYyCTKFl3SdBwrIOvHTB0t6/m7fp/Wx1v6fkv+D/AFvo6B4yg8RzWv2LSdUjtbq2M8d7NCohDDbuiLBiQ43em07Wwxwa6OsfwrpOoaF4ft9M1O/tr5rVFiilt7Rrf92qgAMpkfLcHkEDnpWxTdugBRRRSAKKKKACiiigApGBZCAxUkYDDqPfmlpG3FDsIDY4JGQD9KHsBzHhW/mtdD1WXWtSnvfsWoXMZubhV3lEbA+WNVXOB0VRn0yaxtFu/Feo6r4xje5S2v3tbd9NtZj+7sC6SbVbG4FsgFiAeeOQBWzoXhS8trPVLLxPd6ZrdnqFw9w1uNMMSBnOWVg8sgZc4wCOPU9sjTfhm2ia/rWqaHLoOmPf2xgtDZ6CI3sjyFYMJcN1ywwoYqvTGKXRJ9l99tfxDrfzf3XLukRLofiC/ki1G9l0y2sh9vF1fS3ix3WQQIzISwOwnKrgcx/Lk1U8PXHiPVtc8XW9/fvp9xLbWzWMWwONNEiSbflzhnBAZuxPGcAGtXSvCt6lt9g8Q3WlalpQgaIWEGmNFHIWYMXlEk0vmHIJyecsxJJNY+nfC2DTde1q9spNK02HUrY20P8AZGki0ubIYIDRzCQ4bB+YhRuIU8YxTfby/r/gdloC3v5/1/we7LvhPZbeLNUsLG+1KS0gt498GqTzvIZtzhpIxOTJ5RAA3A7CR8uSGrpda1RNE0O81SW3muY7OFpnig272VRk43Mo6ZPJFZmkeHtQh1wavr2pwX93Fam0txa2jW8aRswZiwaSRmYlV53AYHTkmtDxBps2s+HNQ0y2uEtZLy3eATSRGQIGGCdoZc8E9xSlfl03/r+vwHG3Nrt/X9fiZVn45sZzdNf2GoaVFBZ/b1lvolAmgyRvVVZmB6fK4VuR8tMfx1Hb2d5NqGg6vYy21m18ltcLAJLmFMb2TEpXK5XKsVYbhxzUV14KudTuv+JtqVvLaSaR/Zs0UFm0bs2QTKrmRgvIBClWx6mm33g7VtXtbxtX1u0nvnsJrC0mi04xxwJLt8xmTzSXc7F5DKBjgcnLl5ef62/T+tlHdc3l+l/1/re3Y+N7W6knW40nV7IR2q3kXm2nmPcQltu5I4i8mc4yrKrDI+XrhJ/Hmmx6feXUOn65L9jt3uHR9HuLbcijLYedETOOcFgTjipbHw/qNt4jtNTudStZY4dMFlJDHZMhd9wYyBjKdoyPu4OP7xrQ8QabNrPhzUNMtrhLWS8t3gE0kRkCBhgnaGXPBPcUS208/wA3b8LBDf3vL8lf8bmJ/wAJ/ALW+nl0LWIfstl/aEccscKvc2+cF0Bk+XHUrJsbnpnitpdWW41mbSRBcwSC1W4S5/dlGViV+XkncD/eXH1rFn8H317ds19qtu1vLoraXNHDZMjlm6yKxkYAeikH6mpNN8P+IbbWjqWo69Y3Un2I2oji0tokXByr/wCuY5zncM4IxjbyS9L/AH/rb9PvFrbz/wD2f/th/g5r2XSdTgvtTur2aHUbmBbucJ5m1WwpwqhBgdgoHtTvBUl42nahHqGoXGoy2+pXEIuLnYHZVbAyEVVHHooFHhvQtc0WLUVv9X0+8N3NJcRmHTXh8uVzk5zO+5c444PvTvC2h6xohvhquq2N/HdXD3IFtYPblHdsty0z5HoMAj1NKO6v/Kl89P8AJjfl3/DX/NG/IxSNmVGkKgkIuMt7DJA/OuT0nXobHwnrWtvba3KLa6uZrizvZYpJ4Sh+eOPEmwIoHADdPeuskDmNhEyq+DtZlyAe2RkZ/MVyFt4R11fDevaVe65p8rasZmWaLS3jELS53kqZ23DB4GRjuTU6627fjdDVtL9/w1L2neMF1KeeCPRNVhmW0F5bRTpEjXkRJAKAyfKc4+WTYRuGQOcY6+PdSm+Het6/JoF1p0tjBcvAbh4XSRkd1AAjkZsjaN2QATnGRW1Y+H9RtvEdpqdzqVrLHDpgspIY7JkLvuDGQMZTtGR93Bx/eNQWvg+X+xdT0PVNRS60i8E6xQw2xiljWZ2dt0hdtzAtwQqAdweMVK1tPP8AN2+9W/4Aot3Tfl+Sv+NzK8L3trpOpXJ1GXxNbzSWIuCNauPNju1RvnniQM/lNl1BjAjwGUeWMcWfBt/rV54w8Sf27IyDZaS21jnizR1k+Q8kF+AWI7nAyAKt2XhG4uZhJ4yvbPX/AC7RrOOM6eIo2jZlZzIjO4dmMacgKOOFqn4a+HVv4a8aahrdpDoUMF1GI4rey0YW8luozgCQSEcg/NhRuIB4xin1/rv/AMN/wxKTsdrRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAKGuaoNE0G91RraW6WzhaZoYSodgoycbiB0561bt5vtFrFNt2+YgfGc4yM1keNN58C62kUM08klhNGkUELSu7MhUAKoJPJHQVxVvpAsL66g8H6Zd6dd6h4aJFybGaIS3XVDLKwGZuTy7b+TmlfV/10b/QbWi/rql+p6hVPTrm+uRcnULAWRjuXjhHniTzoh92TgfLu/u9RXBeAtL+z6hcziBLey+xFLuzg8M3GnLNISDuk82RzPIAGG5Q2cnLHIy7w7eafp3gTxRBaWV9otrbyXk8KvYTacqRPuKGNnjAU/QErxkU3pf0v+P9W8hLW3r+h3GuaoNE0G91RraW6WzhaZoYSodgoycbiB0561bt5vtFrFNt2+YgfGc4yM145YaDbaVpfiE33hiPTtcutElitIbHRoY2mjAKsVFvNOzOWlQMSVyNvynaSOj8P6JpFt4qS0tNCmistS0Jftvn6bKI7l93Sd3TDybS2RIS/Jz1p9bf19r/AC+8G9L/ANfZ/wAzvrS8t7+38+zlWaLe6b16blYqw/Agj8Kmrh/hvpWl6Ja3djZeH/7Mvo55xdTLppt1kXz3MQEhUCUbCMbSwA4OOAe4pAFFFFABRRRQAUUUUAFIxKoSFLEDIUdT7c0tIzBELHOAMnAJP5Ch7AZfh7XDr9jPcNYXGnvDcyW7wXLIzqyHBzsZl6+jGsiH4habLL4nfyZvsfhyNXluQOJ/lcvsBwCFKFc5wSD6ZNDw1Nc6zoviKy07+0NIu5764lhuL/SriEBJGyrKHEZbjPAYEdeOKxvDFzqvh/xf4ja6gkuLK1sIVihsPDN3brceQrgJCzOynGQAAW35BXABpdFfTRffbUOvzf56HZ6N4h1C71r+zNZ0y2s5JbX7ZayWl6bmOWMMFbJMaFWG5OACCDweKgsvHNtqN54lisLC6uk0FFO6FCzXj7XLLEuPmwUKg55bI7c52mXVzr8d/HZvf2ur3tqfN1C70m5t4bQBgEhjWVYy4wznIYNkFjjKgYfhp9f0bxd4kSCzS9W3sIo7W2g0K50+G5aFXVY45pHaNQMgZ+bdkFeAct/1/XkC3+Z22ia9qN5q8+l65pcFhdpbpdRm2u2uI5I2JXktHGysCvIK45HJ5A364rwuzT+Mry80m21OLTbm13XrapBPG32nf8ixm4USFApf5R+7X5doBLZ1vHdul14A1y3ktHvPNsZUWCO3aZncqdoCKCSd2Og469qUnaN/6/r/AIfyHFc0rf1/X/DG/RXla6ObK7urfwbpl5p93qHhzJnFnND51xuyvmTMoHnYLcu28E81DqOj6ZJpOsf8It4ZurLTG0S4gvrVtHlia7uTt8jERTdK6nzMyAN94fMezlp+P4X/AMvxFH3ml6fjb/P8D1qivOdD0LS4PFEdpp+l6jp9tqOho11cQ29zatLKHBBknAVvOwWyWbfyc9av+J/B+mWXgzXGgTWNQkl0+aJLafULy/DsV+XELu4J3YwQuR14ol7qv6/g2v0CHvO3p+KT/U7emyMUjZlRpCoJCLjLewyQPzrymfw5p7f2hp2keH7hV1Pwwxl8zTpVW5uQcxmV3XDTAkn5zvB6810Gj6paXXjiXUbfR9Utkk0kJJdT6RPCZWjfJQ7kDEgHgEc5wucHDtrb1/C/+X4ivpf+vs/5/gdBoGvvrmmXN0dMubKS3uJYDazPG0m5DgglWKZJ9GI96d4d11tfsZ7h7CfT3huZLdre4dGdShwc7GZevox+tYvgjVopLfWt1nqkGL+4ugLrS7mAvGzEqV3xjcSB90ZPtTvAeopdLq8YtNRt2bUZ7hftmm3FsGjd8qQZUUH6DkdwKUdWr/yp/PT/AII3p99vlr/wDrqp6dc31yLk6hYCyMdy8cI88SedEPuycD5d393qKsTiM20gnTzIth3ps37hjkbRnP0715hZR6fJ8MfF+k2eg30NuWu3trFtDuIVZZCfK8uNohnnBwoyvU4qb2v5K/4r+vvGle3m/wDP+vuPU6z59c06DQ7rV2uVNjapK8sq8gCMkP8AXBUj8K4vw/omkW3ipLS00KaKy1LQl+2+fpsojuX3dJ3dMPJtLZEhL8nPWs/TPClo3w98S+HdE8PDTdXmiu4pZRp5tUlzLIYVE21RINpGCpYKOpHGakrL7/wbQou7V/L8UmdzoWqa5qFw/wDbGgJpts0Ky28qXyzsck5jkXauxwME7S68nDHHMWg+LbXxD4g1vTbKGTy9JeOM3LcLOzbt2wY5VShXPcg+nPK6Ro8d/qEsvgvT7rwwJtLeG/lvNNlhL3DOhQurFDNIoE2ZVYn5/vnIo8DRarY/ETWrS5KLZLbW8EZh8PXVnC/khlxHI7sgC59W3ZBXgGn1/rv/AF95Kva56VRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACisrxPd6hYeF9QvNGMP2y2gaaMTwtKrbfmI2qykkgEDkckfSuJ0j4j3l+msXkd5p99Z6Kl1POltYSo80SgeSUYysBuIk+baQdhwB1oCz0PS6rw3NlqUU8cE1vdpG7QTqjq4Vh95GA6HnkH1rlfC/ifV9W1GWyvYXfdbNOl1/Yd5YxQOCAIm8//Wn5sgqVyFPyipvD+pXVr4W1q7ubfTmvLK7u/M+yRfY4rh0J+dtzNtLY5YsfU0n1v2v+NgWtrd7fhc2dK8O6D4cWd9E0fTtKEoBmaztY4N4XON20DOMnr0ya0lZXUMhDKwyCDkEV5hd6jr/iHwl4lXWhaXGkJpErYl0C5sXabYx2gTyncFwp3BSCTwQRW/omoeI/t39kX82lrJNpS3do8NtIRbNnbsfMg84DK/MPLzg8DPFa3t/XX/IHZK/9dP8AM7GiuU+H82v3ehvc+INTtL4PcTrH5Nm0LKVnkU5YyuCOBgADAGMnrXV0gCiiigAooooAKKKKACiikZVdCrqGVhggjIIoARJEkLCN1Yo21tpztPofemrcwPcSW6TRtNEqtJGGBZA2dpI6gHBx64Ncb4Ze38NeE9dbTdNPkWep3fk2Vjbk/wAfCqkak4z/AHVP0rmvCUVjq/iDxnpN3cav5+sWcDXl5Lp1xbHcY5Fcr50eIwAQEVuy/wAWCaV7q67J/erh1s+7X3Hpml69o+ued/Yuq2Oo/Z2CzfZLlJfLJ7NtJweD19KtC6t2nlhWeMywqGljDjcgOcEjsDg4z6GuRW6ihu5/FFvbTzx2+mm1soooS01+gdWMgRFLFM7QuF6MzAYK55fwlPo83iDxnaa5LfSR6jZQS6lc39jdWcZBjkEmWkVfJQKQFBI+VeCSCaf9f18tfLYFvr/X9bee56ZpOu6Rr0Mkuh6rZalHE2yR7O4SZUbrglScH2q/XH6S7R/Ee6GoW8VvcXGmqLI20vnJPbRSH5nchW8zMi/LjADcM+Tt3PE99d6X4U1TUNOMIurS1knj8+MuhKKWwQGUnOMdRQ2lHmCKblympRXCt4v1vRVvZvEEdhdKuk/2lDFYxyRmM7tpiZ2Zt4+ZfnCp0J2+hqniHxPoEF5BqU2k3F62lXGoWktvZyrHG0GzfHIplJcHzFw4K9DlelD038/wvf8AJ/1YI+87L+r/APDndUVx+na14oOpyWV7FpF1cT6ct9axRGW3SJt+1o3lPmFxyMOEXofl54fqeseMLHQNUvbjStDszaWcs8ciahNd5dF3BTGYYsg4IzvGPQ0PRXf9W/4YI+87L+r/APDnW0VwVx4l8U2NrqX2yTRzcLox1S2EVrKUhKn5onzIDLxgBx5frt7V0cd7dT+KJdMuhbS2EunrOqeSd4YsVYMSxDKR22jHvRZ3t6/hf/JiurX/AK6f5o145o5d/lSK+xtjbWB2t6H0NEc0cu/ypFfY2xtrA7W9D6GuX8C6fZWej6tYWlpBBZpqt3GttFEqxqu/7oUDAHtTvANla6dpeqWmn20NrbQ6vdLHDBGERBv6BRwBQtbel/y/zG9Pvt+f+R1NFQ3a3L2cq2MsUNyVIikmiMiK3YlQylh7Bh9a4XwD4UB83XtZTSru/uDcQtc21g8E0qtKwcTOZX81TtXaGHygYFHUDvY5o5d/lSK+xtjbWB2t6H0NPrhdCurPwh4K8RXNlYRpa6dqF40VpboI0AD8KABhRn24qzL4g13QrqS08Qz6RPLNp097bzQRS20ULRFAySEtISv7xcOADwfl6Ur6J90n+Fw6tebX42OxorivDHiTWdZvtS02e4ha4itI5re5k0G7sFRmLrhoZ33SAbQcqy9xx1rGbUfE6/BzxHqWp6ta3U4t70QPb2jwPEVllUksZHBHAxgDaAOuM03orjjq7Hf6frukavcXNvpWq2V9NaNsuY7a4SRoWyRhwpJU5B4PoatpcwPcSW6TRtNEFaSMMCyBs7SR1GcHHrg1wlve3vhO+SG+0vTbs/2O8lkujWEiywxwui/Zzgu0ifvVIZVX7rHZVH4cXtuPHniWItqc97exWtxcT3Wm3NurSBXDcSoPLUfKFUkZVeM4Jp2/r52/R/8AB3Jvpc9NooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooARlDKVYZBGCD3rN0/w5pGlWbWthp8MUD26Wzpt3B4kUqqnOcgAkc+taTMqIWchVUZJJwAKyLXxf4bvdPub+y8Q6VcWdpj7TcRXsbxw56b2DYXPvR3ANK8LaXoyyixF3+8j8rM9/POY0/uxmR2MY6cJjoPQVUg8EadYaPqljpNxqNqdSjdZJZdQnuirMDlwJnYBueSME961dO1zSdXmuItJ1SyvpLVtlwltcJIYW54YKTtPB4Poaj8RalPo3hnUdStII7iaztnnWKWQxq+0ZILAEjgHt/jSlom2OKu0kczo/w3t7Rb2LUP7LitLy2NtLa6Dp76XHMpIJaTZKxZhjCkFcBnHO7jorXwzpllqkGowLdfare0FnG0l7M48odirOVY8feILH1pdL8R6TqsMwtdUsbiezQG9jguEY2zYOQ4BJTo3X0PpTfDeqtrNjcXgv8AS9QtmupBaz6XL5kZhBwoZskF+uccVWt7dv6/V/iSrNX/AK/rREmmeHdN0e7uLjT4pke4ZmZXuZJEQsxZvLRmKxgsckIACcZ6CtOiikMKKKKACiiigAooooAKRlDoVOcEYOCQfzFLSNuCHYAWxwCcAn60PYDI0HwtpfhtrltKF4DdP5k32nUJ7kM/dsSu2Ce5HJ4z0qs/gbQ5bzVLmSO+eTVomhvN2p3JWRDngL5m1cZIG0DaCQMZqfwxrF7rOn3UuqWtvaXFveS2zxW8zSoNhxkOyqTnr90fSsPTvHtzqcviiaz0qS4tNJt4ptPWIFpdQDK53KBn5WKYXAyR83OQKOl/L8AW9l3/ABN7SfC+m6NeNdWjX8sxjMQa91K4utqkgkKJZG25KjOMZwKij8GaImp6hftBcTzamhjvEuL6eaKZDn5TE7lMDJAAXgEgYBqvo2p64viJtM1ySxuklsheRTWdrJbmH59vlyK7vknOQcr91vl4qlo/jS+1688SrpemLPDp0EUmmAyBDflkchtxOFRmQBSe3zdCKHt/Xez/ABBb2X9dUbmkeGdM0S4luLJLh7iVBG093eTXUgQHIQPKzFVyc7QQM84q5qmm2usaXcadqCu9rcxmOVY5XjLKeo3IQwz7GsXQdS1s+ILvSNeksbp4rWK5W4srd4BHvZh5bo0knPy5BDcjPHGTu3t9aabZS3mo3UNpbQjdJPPIERB6ljwKHtqC30MyPwlo6XqXTQTzSJZfYNs95NKjQf3WR3KtnuzAk9zUMfgfQo7C8tPIupI72H7PM0uoXEknlf8APNZGcsif7KkD2rRsNd0nVbi5t9L1SyvZrRttxHbXCSNCeeHCklTwevoarweLPDl1ZXd5ba/pc1rZEC6njvY2SDPTewOF/HFD8/6/q4LyFtfDOmWWqQajAt19qt7QWcbSXszjyh2Ks5Vjx94gsfWrmqaba6xpdxp2oK72tzGY5VjleMsp6jchDDPsaj0/XNJ1a4ubfS9Usr2a0YLcR21wkjQnnhwpJU8Hr6Gp72+tNNspbzUbqG0toRuknnkCIg9Sx4FD1WoLR6GYvhHRhdLcNDcSutj/AGfia9mkRoO6sjOVYnuxBY+tQ6f4J0TS7xruzS+Fy0Bt2ml1O5lcxn+Hc8hOB1X+6SSuMmrS+LPDrR3si6/pZTTyBeMLyPFsScASHPyZII5xzVz+0bWW7nsrW6tpb+GIStbecN6q2dpYDJVSR1x+dH9f197Dy/rp/wAD8DO0fwjpWhJdrpp1BReZM3napczZJ6sPMkbaxz95cH3p+heFtM8OPcNpf24G4YvKLnUbi5BYnJbErsASepHJ71H4a1jUdY0u8l1C0tbe8t7ua28mCdpI8ocD94VBOT32j6UvhbV77WbC6k1W1t7W5t7yW2aK2maVBsOOHZVLfXaPpQt9O1/lp/mD/X8df8jXuIEurWWCQyKkqFGMUjRsARjhlIKn3BBHaszR/DGm6FYz2emm+WCfO4TajcTFc5yVaR2KEkk5UjnnrWrJIkUbSSsqIgLMzHAUDqSaw9I8R28+iXmsahrOiS6alxJ5N7ZXIMCwAgL5khO3f64OM0dw7DtJ8H6PosV5FZx3csV6G+0RXt/PdJJu+8SsrsMnPJxz3psHgrQYLS7tjazXEd5D5Ev2u7muGEf9xWkdii55AUgA89atw+JtBuFvmt9b06UacM3pS7jb7KOf9Zg/J909cdD6VlQfETw1feG9T1nStUttQh02KSWeK2mR5AELAZUEkBtp2k9QQaP6+Q1q/wCty5pvg3RdK1RdStYbp71UMf2i6vp7h2XsCZHbOMnGfu7mxjcczWPhjSdOlvHtrdyt5v8ANimnkliAclnCRuxVAxJJCgA984FZfhLXdR1e9vFvdW8O38cKL5kOkyMZbKYlt0UuXYNgDG7CElW+Qdl8K+L5PE3iDW7eO1EWn2QgNlOT810jh8y9fuEr8vqPm6MKLf1/X9MlNdDR0PwrpPh0k6VDMp8sRKZ7uWfy4x0RPMZtif7K4HA44FFj4W0vTtfu9ZtReC+vBidpNQnkRxnIHls5QYycYA2gkDANbFFAwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDM8SwXV14X1GDTrW3u7mS3dY7e5UNHISPusG4OfQ8evFecX8WuafpvibUddh1NbCfQpLcXWsz2CPCVEmFK2wC4YyKF5b+LJXgN61RUtXuUnZr+uqf6Hn2h38Il0vxJf29p4e0PTtINot1PeW/k3HmNEUMbI5URjy+C20nePlHNXtd8WaB4j8NarpHhrW9L1nVLyymit7Gy1GB5ZWKEcAuBxnJ56A12dNkkSKNpJWVEQFmZjgKB1JNVO0k09tfxJheFrdDj9Jsb2y8UWE0fh64tbKHQVtsq1uFikDBhDtWTOQARwNvvVnwSdTRdUTVNCvdL86/muomuZbdw6yMSAPKlfBHfOBzwTW3pOtabr1mbzRb6C/tQ5jE9u4dGYdcMOD9RV6n1v6/i7k2Vren4KwUUUUigooooAKKKKACiiigApGJVCQpYgZCjqfbmlpGZUQs5CqoySTgAUPYDitA0/U9U0bX9M1jS9T0Bb68mmjnMtq7NHI2cDa8gBxwQy4we/bK0TTPFGh+L/Ed/8AZtd1KFrREsxdSabHHePEGCg+VtZM5G04UYJ3c4Fd9pWs6brln9r0a+t7+13lBPbSB0Yjrhhwfwpq65pjXmoWovYRLpiI96GbAt1ZSwLMeB8oJ68DBPUUbL5fhbQN387nMabYanrFne6fqWmatpJvoGN5qdxJaGWV8qFSJUklVUC7xtYYA9SWJytF0Xxbpni7xHc2x1SYS2iR2E+qmxFtPJGGC71twJFX5htwF4LbucV2ukeJ9L1u6mtbGS4W4hQSNDdWk1s5QkgOqyqpZcgjcuR71Mdf0oXOpQNfQrJpcayX244FurKWBY9B8oJ9hg9xR5/1/SBdjnvDWnXy+KbjUo9Ck8O2MtswubR2hH2y6Zw3n7IXdQQAQWJ3NuAOQorZ8W29zd+DdYtbC1e7ubizlhihjZFLsylRy5Cjr3NP0fxLpmuzTw2Elws9uFaSC6tJbaQK2drbJVVipwQGAxkHnitWiSvHlY4u0uZHnV94c1PUWNhY6PLpdvN4a+wrMzwLHBJkEQsEctgAEEqpXngmnaxpus61bXt1beG7jTDDolzpsdkZrbfdPLs2BSshQRptOCzKfmOFHf0OiiWv4/jf/Nij7rTXl+Fv8jiLPQTca/ZW9/4X2aOdBS0lSdbd4UYOrCFow5zjHZSvoan1rwRoen+GdXPhbwppsWpXFjNbxfYbSCCRy6ldu87QByCckdK7CiiXvK3r+Lb/AFCPutNeX4JL9Dz240LUrmVrSz0GSxt5fC7aejs8Cxwyn7sRCOSMdMqCvoa0tLudbuPFH2+88L31jbLpvkr5tzbM5kVt23CSkAHOFOeoO7bxnsKbJIkUbSSsqIgLMzHAUDqSaL639fxv/mK2lv66f/Io5XwfJqsEGrjUfDuoWBkvJ7uETS2zeaHYkIPLlbDf72Bz1p/gltTT+1I9U0G+0sTX011E9zLbuHWRsgfupXIIHXIA9Ca2tN13StZ059Q0rULa7skZla5hkDR5X72HHBA9QcUuk61puvWZvNFvoL+1DmMT27h0Zh1ww4P1FC0ena3y0/yQ3r99/nr/AMEuSMUjZlRpCoJCLjLewyQPzrgLeDXLjwV4sspfDOoW1zfNdyWsUs9qfO87IVQVmIBGedxA9Ca9Bqnp2rWWrC5OnzGUWty9rMdjLtkT7y8gZxnqMj3pWTv5q3y0/wCANO1n2f8An/wTm9G0+8tfFmnSLoM1jYxaElqX3QBIXDAiLajk8AEfKCvoapw6BqupeBNc8J3envZeal2kV7NJG8U5llkZCqoxbbhhu3BT6A847ykZlRCzkKqjJJOABTk7rXz/ABbf6iiuV6eX4JL9DhINBv8AxJdRvfaRc+FooNJfTnEUtu7PvaM4j2l1MaiMgb1H3z8o5qLwjomvab8RNZuNQbXJdPmhiihuLw6eI5/L3DJWEBx975cKvBO4ZxXT6L4t0XxBdy22lXUksscSzfvLaWISRsSFkjZ1AkQkHDISvTnkVet9WsbvVLzTra5SW7sRGbmJc5i3glQT0yQM464x6in/AF+P+bFZWsXKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDO8Q6gNK8O3981ytr5EDMJmiMoQ44OwEbuccZGfWvP08Q67aWviaxu9S1e1u7TSReWzaoNONxHJiU/KLfchUiPo4zwcV6dPBFc28kFzEk0MqlJI5FDK6kYIIPBBHasG48C+Hm0e50/TdMtNHFxBJb+fp1pDFJGkmN4UlCBuwM8dh6Cpd7O3YpNXV+/8AkZ+gX+pQ+JNPsrvXG1mLU9Le/bdFEgt2Vowpj8tQfLbzGxvLH5PvHmuxrAsfCFlpGjSWWhytpVzPtM+o2drbJcTsP43/AHRRmPOSU7nGKdZ+HL2G43ah4o1XVbZlZJLO8gs/KlBBGG8u3Vsc+v1zWkmnt/X9bGcU0tTFtNUn0Xwd4r1K0hE09rqF7KiMMrkN1PTgdT7Crek3Gpad4rtdKutbm16G9sJLtpZYoUNuyMgBXylX5H3nAbcfk+8ea2NJ8MaDoEkr6Fomm6Y8wCyNZ2kcJcDoCVAzUul6FpGhrMui6XZacs7b5RaW6ReY3q20DJ9zUrS3kkvuVv8AglPVv1b+93L9FFFABRRRQAUUUUAFFFFABRRSMquhV1DKwwQRkEUAcholzeW2g+I5tJtDfXseq3flW6soLPv4HzMo75wWH1rlvCtrbLr3jDTNb0LUbOxurGB9Sur+e3UsSkm95GhmJBfJIK8ALj5QAK9G0jw1oWgNK2g6Lp2mNMAJTZWiQlwOmdoGcZP51F/wh/hr7Vd3P/CO6T9ovVdLqX7DHvnVzlg525YE9c5zStZJeSX3IOt/O/3mQZLsTS6xbWEsmpfYHh0rTncea0IZCzyF2UBixjO1mBAAyQxYDlfCtxaaLrvjBde0G/tbD7DBPqdxqItpfM+SUyPKsUj7i+TwoIwMYAwK9F0nwvoGgTSS6Foem6ZJKu2R7O0jhLjrglQMiltvDOg2WqT6nZ6Jp1vf3G7zruK0jWWXcctucDJyeTk80/6/r9QX9f1+Rh6VJLB8R57e+eG6ludMEtrJbRGFba3SXAieMljuJfO/PzbSAq7fm1/FtxdWng3WLrT7p7S6t7OWaKaNVYoyqWHDAqencVY0nQNH0GOSPQ9JsdNSVt0i2dskIc+pCgZNWb2xtNSspbPUbWG7tZhtkgnjDo49Cp4NKWsbL+v6/wCCOOkrv+v6/DY4OfW9f8Orfy3OpvrL/wBhnUVjmt440hlDYOwIA3l4bOGZmwv3utJq+oa5oUF9aQ+JbnU5JtDudRS7aC2DWkkW3aVCxhTG+4gBgx+Q4Y847O38PaLZ3sN5aaRYQXUEAtop4rZFeOEdI1YDIUf3RxUUHhTw7bWF1Y22g6ZDaXhzc28dnGsc59XUDDfjTlrt5/rb7rr7hR0ab8v0/r5mBpkviOPWmsH19bya80pbxHu7FDFbS7wCESMoxQhvus7MMD5uuZdaXxfp3hnV7y68Qabm3sZpYmsdJaGRJFUspzJNKpHGCCnOeorftvD+jWd7DeWmkWEF1BALaKeK2RXjiHSNWAyFH90cVavbG01Kyls9RtYbu1mG2SCeMOjj0Kng0S1Wnn+bt+AQ0d35fkjgL2+8Raba6okviO4nmbQG1KOUWsCfZpkPIjGw/Ic4w+8gD72ea6az1GaTxxLZjUTNA2mR3BtcR4iYuRuGBu+YA9SRxxjmr0PhzRLa6jurfRtPiuIrcWscsdqiukI6RggZCf7PSobLwj4b07/kH+HtKtPkdP3FlGnyuAHHC9GwMjvgZp31v6/rb819wraW/r7P+T+8qeDf9RrP/YYu/wD0Ojwb/qNZ/wCwxd/+h1d07wn4d0dbhdI0DS7BblPLnFrZxxCVf7rbQNw5PB9adpPhjQdAkkk0LRNO0x5QBI1naRwlwOgJUDNKOlvS35f5Det/W/5/5mlIpeNlV2jLAgOuMr7jII/OuJj1DV4vh34llbWbmW+02S8SC+eKHzMRZK5URiM9MH5a7aSNJY2jlRXRwVZWGQwPUEVj23gzwvZWlza2fhvSLe3vFCXMMVhEqTqDkBwFwwHvUtPX0/r+vMaaTXqY2kNrf9utpl/4hubr7dpIuhKttBGbWXftJiAQ/L83Ak8wjaOTznnFttRi+C/iMvr2oalc3FtqHlw3Cw5QLNKrMvlxqxzkZyT14x0r0W28P6NZ3sN5aaRYQXUEAtop4rZFeOIdI1YDIUf3RxUlno2madeXV3p+m2lrc3jB7maCBUedueXYDLHk9fU1Utfx/N2/AUbxd/T8kchDqOuaVepBpmov4oW90l7y3iEcEaxOrxqnlMuwGNhISA7E4j++cmqHw7E1l468RWjaFqdo0sFrLc3N69sWeXEhLyeVK2WckkbQQAMfKABXeaXoOj6H539i6VY6d9oYNN9ktki8wju20DJ5PX1qO08NaFYatNqljoun22oT7vNu4bVElk3HLbnAycnk5PNO+v8AX9f8MTaysadFFFIoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAgvr620zT7i+v5lgtraNpZZW6IqjJP5CuW1XxLe3/AIP1yW207WNBuLfTnura5uYofnG1iCuGcA/LyrhWAPQduk1fTINa0a80y7LiC8heGQxnDAMMEg+vNYc/h7xBf+H9R07U/EFpM91aNaQyRaaY1QMMM7p5pLvjphkAyeKmV2nb+v6/ryqLSkn5/wBfqN0vxtaNbSrqtnqGmLa2C3vn30agTw9DIoVmcHIHyuqv8w+XOcXdM8Sf2tdtp9zpupaLdSQGeBb1Yg0seQC6bHcAqWXKtgjcMrzWddeCrnU7r/ibalby2kmkf2bNFBZtG7NkEyq5kYLyAQpVsepq5Y+H9UGqDVNa1W1vb63tpLayaGxMMcQcqWZ18xi7EomcMowMADOat2b+/wDW36f1tnG6X3fkv1v/AFvB4Wv5bLQNXn1vVLi8SwvrpZLu6C7vLjPUhFVeAOiqPpVyw8Vw3Mksd/p19pMiW7XSJerHmaFcbnURu+MZGVbDDI4qhpfhHUF0jWtL8RanZahZ6sZmdbWwa3ZDLnfy0sgI54GOO5NReG/Af/COi7ktv7CtbuS2MENzpWhR2jLn+KT523nIBwNq9eOmJ1svRffb/P8ArtWl/m/uv/kaWl+KJ9Vt5Z4/DmrQp9nFxbNI1sVu1PQRsszKCeDhyvX61W8NeMZtX0C71XWNGutHt7UzM007wujJHI6nHlyM2VCc5AGemRS+GfClxoeq3d/cz6WGuVO+LSdMNlHK5bJklUyyb37BuDgtnORgsvCMyaNqeianqEV1pF4twkUEdr5ciLM7M29yzByN+AQqj1B4w3toC31JrbxY1x5sTaDqkF4ITcW9lN5Cy3UYIBZP3u0YLLkOyMMjiqun/EHT7+1S+OnapbaY1k12dQmgXyV2hd0ZKsTvG7sNrFWCliDVbw94El8OLdTaf/wjlrfPAIYbiy8PLbDGQSZQsu6ToOFZB146Yv6d4UnHgVvDPiC/gvovs4tkmtLU25WMKACQzyZcEZzwOnHqf1+f/A/rQF5ljTPEn9rXbafc6bqWi3UkBngW9WINLHkAumx3AKllyrYI3DK81D4KkvG07UI9Q1C41GW31K4hFxc7A7KrYGQiqo49FApbHw/qg1QaprWq2t7fW9tJbWTQ2JhjiDlSzOvmMXYlEzhlGBgAZzS+FtD1jRDfDVdVsb+O6uHuQLawe3KO7ZblpnyPQYBHqaFv8n+at+APb5/ozoaKKKACkYFkIDFSRgMOo9+aWkbcUOwgNjgkZAP0oewHMeFb+a10PVZda1Ke9+xahcxm5uFXeURsD5Y1Vc4HRVGfTJrG0W78V6jqvjGN7lLa/e1t3021mP7uwLpJtVsbgWyAWIB545AFbOheFLy2s9UsvE93pmt2eoXD3DW40wxIGc5ZWDyyBlzjAI49T2yNN+GbaJr+tapocug6Y9/bGC0NnoIjeyPIVgwlw3XLDChiq9MYpdEn2X321/EOt/N/dcu6REuh+IL+SLUb2XTLayH28XV9LeLHdZBAjMhLA7CcquBzH8uTVTw9ceI9W1zxdb39++n3EttbNYxbA400SJJt+XOGcEBm7E8ZwAa1dK8K3qW32DxDdaVqWlCBohYQaY0UchZgxeUSTS+YcgnJ5yzEkk1j6d8LYNN17Wr2yk0rTYdStjbQ/wBkaSLS5shggNHMJDhsH5iFG4hTxjFN9vL+v+B2WgLe/n/X/B7su+E9lt4s1Swsb7UpLSC3j3wapPO8hm3OGkjE5MnlEADcDsJHy5Iaul1rVE0TQ7zVJbea5js4WmeKDbvZVGTjcyjpk8kVmaR4e1CHXBq+vanBf3cVqbS3FraNbxpGzBmLBpJGZiVXncBgdOSa0PEGmzaz4c1DTLa4S1kvLd4BNJEZAgYYJ2hlzwT3FKV+XTf+v6/Acbc2u39f1+JlWfjmxnN01/YahpUUFn9vWW+iUCaDJG9VVmYHp8rhW5Hy0x/HUdvZ3k2oaDq9jLbWbXyW1wsAkuYUxvZMSlcrlcqxVhuHHNRXXgq51O6/4m2pW8tpJpH9mzRQWbRuzZBMquZGC8gEKVbHqabfeDtW1e1vG1fW7Se+ewmsLSaLTjHHAku3zGZPNJdzsXkMoGOBycuXl5/rb9P62Ud1zeX6X/X+t7dj43tbqSdbjSdXshHareRebaeY9xCW27kjiLyZzjKsqsMj5euEn8eabHp95dQ6frkv2O3e4dH0e4ttyKMth50RM45wWBOOKlsfD+o23iO01O51K1ljh0wWUkMdkyF33BjIGMp2jI+7g4/vGtDxBps2s+HNQ0y2uEtZLy3eATSRGQIGGCdoZc8E9xRLbTz/ADdvwsEN/e8vyV/xuYn/AAn8Atb6eXQtYh+y2X9oRxyxwq9zb5wXQGT5cdSsmxuemeK2l1ZbjWZtJEFzBILVbhLn92UZWJX5eSdwP95cfWsWfwffXt2zX2q27W8uitpc0cNkyOWbrIrGRgB6KQfqak03w/4httaOpajr1jdSfYjaiOLS2iRcHKv/AK5jnOdwzgjGNvJL0v8Af+tv0+8WtvP/APZ/+2H+DmvZdJ1OC+1O6vZodRuYFu5wnmbVbCnCqEGB2Cge1O8FSXjadqEeoahcajLb6lcQi4udgdlVsDIRVUceigUeG9C1zRYtRW/1fT7w3c0lxGYdNeHy5XOTnM77lzjjg+9O8LaHrGiG+Gq6rY38d1cPcgW1g9uUd2y3LTPkegwCPU0o7q/8qXz0/wAmN+Xf8Nf80b8jFI2ZUaQqCQi4y3sMkD865PSdehsfCeta29trcotrq5muLO9liknhKH5448SbAigcAN0966yQOY2ETKr4O1mXIB7ZGRn8xXIW3hHXV8N69pV7rmnytqxmZZotLeMQtLneSpnbcMHgZGO5NTrrbt+N0NW0v3/DUvad4wXUp54I9E1WGZbQXltFOkSNeREkAoDJ8pzj5ZNhG4ZA5xjr491Kb4d63r8mgXWnS2MFy8BuHhdJGR3UACORmyNo3ZABOcZFbVj4f1G28R2mp3OpWsscOmCykhjsmQu+4MZAxlO0ZH3cHH941Ba+D5f7F1PQ9U1FLrSLwTrFDDbGKWNZnZ23SF23MC3BCoB3B4xUrW08/wA3b71b/gCi3dN+X5K/43Mrwve2uk6lcnUZfE1vNJYi4I1q482O7VG+eeJAz+U2XUGMCPAZR5YxxZ8G3+tXnjDxJ/bsjINlpLbWOeLNHWT5DyQX4BYjucDIAq3ZeEbi5mEnjK9s9f8ALtGs44zp4ijaNmVnMiM7h2YxpyAo44Wqfhr4dW/hrxpqGt2kOhQwXUYjit7LRhbyW6jOAJBIRyD82FG4gHjGKfX+u/8Aw3/DEpOx2tFFFIoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKbIxSNmVGkKgkIuMt7DJA/Os3xNcJaeE9VnlmeBY7OVjKkvlMnyHkPg7T6HBwexrhPAOi2Wh+ILi51Xw7b6Rq7WOYFttJgg8yCM/Oy+RNOWfMig/Mpb5cKcGjdtD2VzufDuutr9jPcPYT6e8NzJbtb3DozqUODnYzL19GP1rWrzizEfiLwT4v0saVfPLdS3k0MN/pc0Cy7yTGV85FBOQDjqDjOKbcXU+sapqs/hrS9Usr+60FoIL2fTJbQvOpOFLyIuGXcMFsDn5ScHC6L0X5X/NWF/m/zS/J3+R6TRXI+DLTw9b3Er+G/Dt3pLNAi3ck9hLaeYwPAYOB5r8tmQbvduRXXVQk7hRRRSGFFFFABRRRQAUUUUAFIxKoSFLEDIUdT7c0tIzBELHOAMnAJP5Ch7AZfh7XDr9jPcNYXGnvDcyW7wXLIzqyHBzsZl6+jGsiH4habLL4nfyZvsfhyNXluQOJ/lcvsBwCFKFc5wSD6ZNDw1Nc6zoviKy07+0NIu5764lhuL/SriEBJGyrKHEZbjPAYEdeOKxvDFzqvh/xf4ja6gkuLK1sIVihsPDN3brceQrgJCzOynGQAAW35BXABpdFfTRffbUOvzf56HZ6N4h1C71r+zNZ0y2s5JbX7ZayWl6bmOWMMFbJMaFWG5OACCDweKgsvHNtqN54lisLC6uk0FFO6FCzXj7XLLEuPmwUKg55bI7c52mXVzr8d/HZvf2ur3tqfN1C70m5t4bQBgEhjWVYy4wznIYNkFjjKgYfhp9f0bxd4kSCzS9W3sIo7W2g0K50+G5aFXVY45pHaNQMgZ+bdkFeAct/1/XkC3+Z22ia9qN5q8+l65pcFhdpbpdRm2u2uI5I2JXktHGysCvIK45HJ5A364rwuzT+Mry80m21OLTbm13XrapBPG32nf8AIsZuFEhQKX+Ufu1+XaAS2dbx3bpdeANct5LR7zzbGVFgjt2mZ3KnaAigkndjoOOvalJ2jf8Ar+v+H8hxXNK39f1/wxv0V5Wujmyu7q38G6Zeafd6h4cyZxZzQ+dcbsr5kzKB52C3LtvBPNQ6jo+mSaTrH/CLeGbqy0xtEuIL61bR5Ymu7k7fIxEU3Sup8zMgDfeHzHs5afj+F/8AL8RR95pen42/z/A9aorznQ9C0uDxRHaafpeo6fbajoaNdXENvc2rSyhwQZJwFbzsFslm38nPWr/ifwfpll4M1xoE1jUJJdPmiS2n1C8vw7FflxC7uCd2MELkdeKJe6r+v4Nr9Ah7zt6fik/1O3psjFI2ZUaQqCQi4y3sMkD868pn8Oae39oadpHh+4VdT8MMZfM06VVubkHMZld1w0wJJ+c7wevNdBo+qWl144l1G30fVLZJNJCSXU+kTwmVo3yUO5AxIB4BHOcLnBw7a29fwv8A5fiK+l/6+z/n+B0Gga++uaZc3R0y5spLe4lgNrM8bSbkOCCVYpkn0Yj3p3h3XW1+xnuHsJ9PeG5kt2t7h0Z1KHBzsZl6+jH61i+CNWikt9a3WeqQYv7i6AutLuYC8bMSpXfGNxIH3Rk+1O8B6il0urxi01G3ZtRnuF+2abcWwaN3ypBlRQfoOR3ApR1av/Kn89P+CN6ffb5a/wDAOuqnp1zfXIuTqFgLIx3LxwjzxJ50Q+7JwPl3f3eoqxOIzbSCdPMi2HemzfuGORtGc/TvXmFlHp8nwx8X6TZ6DfQ25a7e2sW0O4hVlkJ8ry42iGecHCjK9Tipva/kr/iv6+8aV7eb/wA/6+49TrPn1zToNDutXa5U2NqkryyryAIyQ/1wVI/CuL8P6JpFt4qS0tNCmistS0Jftvn6bKI7l93Sd3TDybS2RIS/Jz1rP0zwpaN8PfEvh3RPDw03V5oruKWUaebVJcyyGFRNtUSDaRgqWCjqRxmpKy+/8G0KLu1fy/FJnc6FqmuahcP/AGxoCabbNCstvKl8s7HJOY5F2rscDBO0uvJwxxzFoPi218Q+INb02yhk8vSXjjNy3Czs27dsGOVUoVz3IPpzyukaPHf6hLL4L0+68MCbS3hv5bzTZYS9wzoULqxQzSKBNmVWJ+f75yKPA0Wq2PxE1q0uSi2S21vBGYfD11Zwv5IZcRyO7IAufVt2QV4Bp9f67/195Kva56VRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGyRpLG0cqK6OCrKwyGB6gis/SPDeh+H/ADf7B0bT9M87Hm/YrVIfMxnG7aBnGT19TV64l8i2lm8t5PLQtsjGWbAzgDua4m1+IGoXOhanqcWmaTdLYRK5hsdZ82RWyN0UqtCpikC5O055GCV60LfQHtqd1RXDJ8QbyzmuD4g0WGztraK5Ly218Z2MkJTKqpjTIYOMMSPmBGMYYrrGualPpGp6V4h09dIurjSp7uzew1J5CRGBuBdUjZHUunAyCCfmODSbsr+VxxV5W87HcUVxuj+NorjR9Q1NEtZfD+lWu5tQhuy7yukau6iMoBgA8NvIPGODkO8J/EC08S6s+miXSXuTAblBpeqrfBYwyqRIVVdj5YcDcDzhjiqa96yJTvG52FFFFIYUUUUAFFFFABRRRQAUUUjKHQqc4IwcEg/mKAFori/Dl/Z+GfCuuXd/dTfY9P1G6BlurlpX2q+FBkkYk9gCzenNc14R1KPxD4h8Y2dt4vsZdW1Wzt2hlsrtJ1tTskBWEKwLLHlckEEk5OC1G6uuyf3q4dbPu19x6zRXA6dBoXha91PxBpkNppujWdl5F49rGsEN5cK/LgZCkryu8k5LkFvlNY/grUrLxF4o8XWU3iq1u73VrS3IOmX8bm3BSRWWAjtHuX5sfeO4gbsUen9f1uHXX+v62PVqK4fwpYafo/jjUrLT9LGgRvZp5disaIt5sdg10BETGPvKv9/puVRtz0/iDUptG8OahqdtbpdSWdu84hklMYcKMkbgrY4B7GhtJc39f1/W4JNvlNGiuPj8c3NoLyTxHo66fDFpw1GHybsTyPHnBRxtVVkyVGAzrz97jlt54y1jSbW7Gs6FaW96mny6haQRakZEmSLHmIz+UNjgOvAVgc8Hg0PTf+rX/wAmC952R2VFcrYeLNVmvJbe/wDDjRytZLfWsFpepLLKhbaUfeERHGRwHZevzccre+LdVtdI1C9bwfqVr9jtZLgG+urVI32DJXdFLKwJAOPkI9cUPTVgvedkdTRXFSeNtYt7XUJLzw9bwSwaZ/altEdRLeZED8ySERYjcDHC+YpPG7vW+mpzXHiCbSZrZUgayW4jnjuG3tlirKVCjbjsQx/Ciz2/rS/+TFdb/wBdP80a1Fct4HtEh0nVrMS3MkaapdRB5rmSSTaGwMyMxcnHcnNL4Et1tNN1O3SSeRIdVuUVrid5nID4GXclm47kmha/df8AL/Mb0++35/5HUUU2QuI2MSqz4O1WbAJ7ZODj8jXGaTqjaT4L8Q6ta6Ha217a3d3PdWkd+7xzSocuwlaPIyBx8mBwMUrrXyVx2btbq7Ha0Vy+meJtYvr6ayudDt7S5ksBfWSNqBcOpONkpEf7tgSudvmDk4Jxzhf8JV4ob4V6/reo2lja3FvBdm1ltLppW3pJIgyrRoBt2jByd2MnFN3SFGzdv6/rU9ForzbRptK8CX11Pqnh610F5tNNz9qgv/NN2kTqG+0ZCjz90y5cl87z+8OKj+HOv2eo+PPEnmeI9P1S+vYrWcRWl5HKkYCybo4tp5VMqCe5JJxuxTsK+lz02iiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAiuoPtVnNb+bLD5sbJ5kLbXTIxlT2I7Guan8C/bLa8TUfEer3k9zbi2F1ItqskMe4MwXZAqnJA5ZWI7Yyc9SzKiFnIVVGSScACs3TPEWka9bzyeHdV0/VTDw32S7SRVYg4DFM7c49KPMDH/AOEAtJbqSS+1XUb2GV7lpbabyRG4nChlJSNWAG0EEMCD3NSt4KSa2u0vdd1W8uLi1ezju5zB5ltC+N6oBEF+baMsysxwOeKt+FtXvtZsLqTVbW3tbm3vJbZoraZpUGw44dlUt9do+lW9M1/R9aedNG1ax1BrZts62tykpiPPDbScHg9fQ0WVl6fhb/Jhezv5/iZsfg62F5JNPqN9cxXGnLp91bSGIR3SgEeY4VAd+GIypAxxirmjaJPpTMbjXNT1UbAkYvWixEvt5cabj0+Z9x468nM+l69o+ued/Yuq2Oo/Z2CzfZLlJfLJ7NtJweD19Kv0/MVugUUUUhhRRRQAUUUUAFFFFABSMCyEBipIwGHUe/NLSNuCHYAWxwCcAn60PYDE8N+GW8OG8/4nepamLuZp3W9EGEkY5Zl8uJOvocjjgDmqh8Fk6nrV6PEesK+sQeRKifZ1EIAIQxkQ7gVDEAknrzk4NXfDGsXus6fdS6pa29pcW95LbPFbzNKg2HGQ7KpOev3R9Kw9O8e3Opy+KJrPSpLi00m3im09YgWl1AMrncoGflYphcDJHzc5ApO1vl+ALfTv+Js6L4ZfSLqOabW9Q1IQwG3giuY7aNIUJXO1YYo/7ijnOAOMVVbwNbXGpa1c6hquo3sGtwfZ7qyl8lYvLwQoUpGrjaGYA7s885PNO0bU9cXxE2ma5JY3SS2QvIprO1ktzD8+3y5Fd3yTnIOV+63y8VS0fxpfa9eeJV0vTFnh06CKTTAZAhvyyOQ24nCozIApPb5uhFN7ff8An/mEd7Ly/wA0a2j+F00vUTqF1qd9qt4IPs8U155S+TFkEoqxRooBIBJIJOBzgVe1rS01vQ7zTJbia2jvIWheWDbvVWGDjcrDpkcg1k6DqWtnxBd6Rr0ljdPFaxXK3FlbvAI97MPLdGkk5+XIIbkZ44yd29vrTTbKW81G6htLaEbpJ55AiIPUseBQ9VrsEdHp/X9f8Aw38F2txeLLf6jfXsX9mf2bLbTeUElj7uxSNWDkjOVYAdgKil8Dx3VneQ6hrmq3s1zaPZJdTmDzLeF8b1TbEF+bAyzKzHA54FbNhruk6rcXNvpeqWV7NaNtuI7a4SRoTzw4UkqeD19DVeDxZ4curK7vLbX9LmtbIgXU8d7GyQZ6b2Bwv44oeu/9X/4f8QWm39f1Yjs/DIs9cttTOq388lvYCx8qUQ7JFBB3ttjB3EgHgge1Xda0tNb0O80yW4mto7yFoXlg271Vhg43Kw6ZHINGn65pOrXFzb6XqllezWjBbiO2uEkaE88OFJKng9fQ1Pe31pptlLeajdQ2ltCN0k88gREHqWPAolqtf6uEdHoYb+DIJrrzbzVNQuUbSzpckL+SqSxnq5Kxhg59iB6AUmneEJNP1M6g/iTWLy5NqbXfcm3wEzlSFWJQCpyQcc5+bdgYvL4s8OtHeyLr+llNPIF4wvI8WxJwBIc/JkgjnHNXP7RtZbueytbq2lv4YhK1t5w3qrZ2lgMlVJHXH50ef9df82Hl/XT/ACRlaD4Xl0GO+RfEGqXv2x3lJuktsxSMcs67IV5z2ORx0p/hzw0/h1rvOuajqS3UrTMl4tuAsjHLMPKiQ8+hyPQCjw1rGo6xpd5LqFpa295b3c1t5ME7SR5Q4H7wqCcnvtH0pfC2r32s2F1Jqtrb2tzb3kts0VtM0qDYccOyqW+u0fShb6dvw0/4APz7/jr/AME2ZFLxsqu0ZYEB1xlfcZBH51y9t4G8jRNX0ubxHq91Dq3mea8q2oeNpM72TbCBls45BA7AV1EkiRRtJKyoiAszMcBQOpJrD0jxHbz6JeaxqGs6JLpqXEnk3tlcgwLACAvmSE7d/rg4zS0d/Qeqt6j7PwyLPXLbUzqt/PJb2AsfKlEOyRQQd7bYwdxIB4IHtUdn4Qs7a01CxuLu7vtNvRKv2C4KeVCsrM0irtVWOSx5csR2I5zch8TaDcLfNb63p0o04ZvSl3G32Uc/6zB+T7p646H0rKg+Inhq+8N6nrOlapbahDpsUks8VtMjyAIWAyoJIDbTtJ6gg035/wBXFFa6FvRPC6aPdLc3Gq6jq08cH2aCXUGjZoYsglQURd2Sq5ZtzHaOaNO8MHTvFGoa3/bOoXL6gqrLazLB5Shc7Au2IP8AKGIGWOc85PNUvCWu6jq97eLe6t4dv44UXzIdJkYy2UxLbopcuwbAGN2EJKt8g7L4V8XyeJvEGt28dqItPshAbKcn5rpHD5l6/cJX5fUfN0YU9f6/r+txK3T+v6/4B1NFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBmeJYLq68L6jBp1rb3dzJbusdvcqGjkJH3WDcHPoePXiuU8M2viS08VXWoalYaxc201isSSalNYCZDGztsC2+F+YuNuSf4slcAN31FGzuD1Vv6/rQ4LT9P1rVfCvijSbjR73RZ9RkupLaa6ngKnzc7RmGV2BHfj6Zq1Pp+oeIfDWoadH4d/4R6ZtONnHLcSQktxxGhhZ/3XUHO08jC9a7OilbS3lb7lYOt/O/36nKaTa39/4qtdUm0WXQbexsJLMwyyQsbgs0ZXaImYCNNhxkg/OflHOerqnp2rWWrC5OnzGUWty9rMdjLtkT7y8gZxnqMj3q5T6L+t9f1AKKKKACiiigAooooAKKKKACkYlUJCliBkKOp9uaWkZlRCzkKqjJJOABQ9gOK0DT9T1TRtf0zWNL1PQFvryaaOcy2rs0cjZwNryAHHBDLjB79srRNM8UaH4v8R3/ANm13UoWtESzF1Jpscd48QYKD5W1kzkbThRgndzgV32lazpuuWf2vRr63v7XeUE9tIHRiOuGHB/CmrrmmNeahai9hEumIj3oZsC3VlLAsx4HygnrwME9RRsvl+FtA3fzucxpthqesWd7p+paZq2km+gY3mp3EloZZXyoVIlSSVVQLvG1hgD1JYnK0XRfFumeLvEdzbHVJhLaJHYT6qbEW08kYYLvW3AkVfmG3AXgtu5xXa6R4n0vW7qa1sZLhbiFBI0N1aTWzlCSA6rKqllyCNy5HvUx1/Shc6lA19CsmlxrJfbjgW6spYFj0Hygn2GD3FHn/X9IF2Oe8NadfL4puNSj0KTw7Yy2zC5tHaEfbLpnDefshd1BABBYnc24A5Citnxbb3N34N1i1sLV7u5uLOWGKGNkUuzKVHLkKOvc0/R/Euma7NPDYSXCz24VpILq0ltpArZ2tslVWKnBAYDGQeeK1aJK8eVji7S5kedX3hzU9RY2Fjo8ul283hr7CszPAscEmQRCwRy2AAQSqleeCadrGm6zrVte3Vt4buNMMOiXOmx2Rmtt908uzYFKyFBGm04LMp+Y4Ud/Q6KJa/j+N/8ANij7rTXl+Fv8jiLPQTca/ZW9/wCF9mjnQUtJUnW3eFGDqwhaMOc4x2Ur6Gp9a8EaHp/hnVz4W8KabFqVxYzW8X2G0ggkcupXbvO0AcgnJHSuwool7yt6/i2/1CPutNeX4JL9Dz240LUrmVrSz0GSxt5fC7aejs8Cxwyn7sRCOSMdMqCvoa0tLudbuPFH2+88L31jbLpvkr5tzbM5kVt23CSkAHOFOeoO7bxnsKbJIkUbSSsqIgLMzHAUDqSaL639fxv/AJitpb+un/yKOV8HyarBBq41Hw7qFgZLye7hE0ts3mh2JCDy5Ww3+9gc9af4JbU0/tSPVNBvtLE19NdRPcy27h1kbIH7qVyCB1yAPQmtrTdd0rWdOfUNK1C2u7JGZWuYZA0eV+9hxwQPUHFLpOtabr1mbzRb6C/tQ5jE9u4dGYdcMOD9RQtHp2t8tP8AJDev33+ev/BLkjFI2ZUaQqCQi4y3sMkD864C3g1y48FeLLKXwzqFtc3zXclrFLPanzvOyFUFZiARnncQPQmvQap6dq1lqwuTp8xlFrcvazHYy7ZE+8vIGcZ6jI96Vk7+at8tP+ANO1n2f+f/AATm9G0+8tfFmnSLoM1jYxaElqX3QBIXDAiLajk8AEfKCvoapw6BqupeBNc8J3envZeal2kV7NJG8U5llkZCqoxbbhhu3BT6A847ykZlRCzkKqjJJOABTk7rXz/Ft/qKK5Xp5fgkv0OEg0G/8SXUb32kXPhaKDSX05xFLbuz72jOI9pdTGojIG9R98/KOai8I6Jr2m/ETWbjUG1yXT5oYoobi8OniOfy9wyVhAcfe+XCrwTuGcV0+i+LdF8QXcttpV1JLLHEs37y2liEkbEhZI2dQJEJBwyEr055FXrfVrG71S8062uUlu7ERm5iXOYt4JUE9MkDOOuMeop/1+P+bFZWsXKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDO8Q6gNK8O3981ytr5EDMJmiMoQ44OwEbuccZGfWuEs/FmtaN/wAJFFqL6lPcWGlre29vrZshKZMSnA+yHGwiPOGG75TjivSZ4Irm3kguYkmhlUpJHIoZXUjBBB4II7Vnab4Y0HR5EfSNE06weNWVGtbSOIqGxuAKgYB2jPrgelLqMz9Js9QRZIbrxhPqEl9ZiSJhb26vCe8sW1MFPmXAcP0HJ5qh8PLW7j8OubzxDf30txPdBEuRBmLbcSKXXbGpJJIJ3bgCRgAcV0ml6Do+h+d/YulWOnfaGDTfZLZIvMI7ttAyeT19aW30PSbO4vJ7TS7KCa/ObuSK3RWuTz/rCB8/U9c9TTf9f1+pKMLQv7X1Lwzq1m2uXJvoL25tbfUXhh8xdrYQlRGIz7/Lz+tZGk+JNUuPC1/r8d3fXMmkaa8NxYXEUIWS+iDGTJVFbIIA4IU54AxXX6R4a0LQGlbQdF07TGmAEpsrRIS4HTO0DOMn86vxQQwKwgiSMO5dgigbmJyScdye9Lp8l99rX/ry7FLf5/hv/Xz7nHeD9T8QT6ssOqx6jJZ3FobhZ9SewDb9ygCJbVyTGQxOWyRhfmOa7Ws/S/D+jaG0x0TSLHTjcENMbS2SLzCM4LbQM9T19a0KpkpBRRRSGFFFFABRRRQAUUUjKroVdQysMEEZBFAHIaJc3ltoPiObSbQ317Hqt35VurKCz7+B8zKO+cFh9a5bwra2y694w0zW9C1GzsbqxgfUrq/nt1LEpJveRoZiQXySCvAC4+UACvRtI8NaFoDStoOi6dpjTACU2VokJcDpnaBnGT+dRf8ACH+GvtV3c/8ACO6T9ovVdLqX7DHvnVzlg525YE9c5zStZJeSX3IOt/O/3mQZLsTS6xbWEsmpfYHh0rTncea0IZCzyF2UBixjO1mBAAyQxYDlfCtxaaLrvjBde0G/tbD7DBPqdxqItpfM+SUyPKsUj7i+TwoIwMYAwK9F0nwvoGgTSS6Foem6ZJKu2R7O0jhLjrglQMiltvDOg2WqT6nZ6Jp1vf3G7zruK0jWWXcctucDJyeTk80/6/r9QX9f1+Rh6VJLB8R57e+eG6ludMEtrJbRGFba3SXAieMljuJfO/PzbSAq7fm1/FtxdWng3WLrT7p7S6t7OWaKaNVYoyqWHDAqencVY0nQNH0GOSPQ9JsdNSVt0i2dskIc+pCgZNWb2xtNSspbPUbWG7tZhtkgnjDo49Cp4NKWsbL+v6/4I46Su/6/r8Njg59b1/w6t/Lc6m+sv/YZ1FY5reONIZQ2DsCAN5eGzhmZsL97rSavqGuaFBfWkPiW51OSbQ7nUUu2gtg1pJFt2lQsYUxvuIAYMfkOGPOOzt/D2i2d7DeWmkWEF1BALaKeK2RXjhHSNWAyFH90cVFB4U8O21hdWNtoOmQ2l4c3NvHZxrHOfV1Aw3405a7ef62+66+4UdGm/L9P6+ZgaZL4jj1prB9fW8mvNKW8R7uxQxW0u8AhEjKMUIb7rOzDA+brmXWl8X6d4Z1e8uvEGm5t7GaWJrHSWhkSRVLKcyTSqRxggpznqK37bw/o1new3lppFhBdQQC2initkV44h0jVgMhR/dHFWr2xtNSspbPUbWG7tZhtkgnjDo49Cp4NEtVp5/m7fgENHd+X5I4C9vvEWm2uqJL4juJ5m0BtSjlFrAn2aZDyIxsPyHOMPvIA+9nmums9Rmk8cS2Y1EzQNpkdwbXEeImLkbhgbvmAPUkccY5q9D4c0S2uo7q30bT4riK3FrHLHaorpCOkYIGQn+z0qGy8I+G9O/5B/h7SrT5HT9xZRp8rgBxwvRsDI74Gad9b+v62/NfcK2lv6+z/AJP7yp4N/wBRrP8A2GLv/wBDo8G/6jWf+wxd/wDodXdO8J+HdHW4XSNA0uwW5Ty5xa2ccQlX+620DcOTwfWnaT4Y0HQJJJNC0TTtMeUASNZ2kcJcDoCVAzSjpb0t+X+Q3rf1v+f+ZpSKXjZVdoywIDrjK+4yCPzriY9Q1eL4d+JZW1m5lvtNkvEgvnih8zEWSuVEYjPTB+Wu2kjSWNo5UV0cFWVhkMD1BFY9t4M8L2Vpc2tn4b0i3t7xQlzDFYRKk6g5AcBcMB71LT19P6/rzGmk16mNpDa3/braZf8AiG5uvt2ki6Eq20EZtZd+0mIBD8vzcCTzCNo5POecW21GL4L+Iy+vahqVzcW2oeXDcLDlAs0qsy+XGrHORnJPXjHSvRbbw/o1new3lppFhBdQQC2initkV44h0jVgMhR/dHFSWejaZp15dXen6baWtzeMHuZoIFR5255dgMseT19TVS1/H83b8BRvF39PyRyEOo65pV6kGmai/ihb3SXvLeIRwRrE6vGqeUy7AY2EhIDsTiP75yaofDsTWXjrxFaNoWp2jSwWstzc3r2xZ5cSEvJ5UrZZySRtBAAx8oAFd5peg6Pofnf2LpVjp32hg032S2SLzCO7bQMnk9fWo7Tw1oVhq02qWOi6fbahPu827htUSWTcctucDJyeTk8076/1/X/DE2srGnRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAIL6+ttM0+4vr+ZYLa2jaWWVuiKoyT+QrIsPFDXdvdTXOgazYJBALhPPtldrhDn7ixM53cfcYB+RxWlq+mQa1o15pl2XEF5C8MhjOGAYYJB9eaxX8Pa7faLfWGseIo5Gntjbwy2VibfZn+NwZH3NwPulBgtwMgha6/1/X9fJ6aEtp4qmujeQyeHNWtr62hSdbKZrbzJ0YkAoyzFOqnIZlNVtP+IFhqFot8dN1S20w2T3jajNAvkIECl4yVYneN3YbSVYKSQaztD+H9/wCHtRub/R77QtPmubcQvDYaAILclSSjFFm3H7zZ+fnC4KgENr6Z4WuU8CyeGde1CG9ia2Nos1nam3Ii2BRkNJJlupzwOnHq3t/Xn/wBLfX+v6/ruUNI8QalqPjqZJ7LVrK1OlefFYXqwDc3mAB0KMeSOMO2R6Lnm34e1izh8P6rqt4+qW0UN5cSXUeqypLJbFT8yL5bMNgx8qqT+dJpvhzX7fxCNW1TXrK8kWxazEcWmNCuNwZX/wBcxzkHPYjGAuCTHp3g6+Oi6zpXiLVLS/ttUkklP2Oxa2aJpCSxBaWQHBxjjjHOaNl8n/6Vp+Av81+Wv4mlpHiZdT1D7Fd6TqGkXLw/aII79YwZ4wQGZfLdsYLLlWww3DitusDTNA1Bdaj1XxBqdvqF1bQPb2v2azNusaOVLlgXcs52LyCAAOFGTW/T6DCiiikAUUUUAFFFFABSMCyEBipIwGHUe/NLSNuKHYQGxwSMgH6UPYDmPCt/Na6HqsutalPe/YtQuYzc3CrvKI2B8saqucDoqjPpk1jaLd+K9R1XxjG9yltfva276bazH93YF0k2q2NwLZALEA88cgCtnQvCl5bWeqWXie70zW7PULh7hrcaYYkDOcsrB5ZAy5xgEcep7ZGm/DNtE1/WtU0OXQdMe/tjBaGz0ERvZHkKwYS4brlhhQxVemMUuiT7L77a/iHW/m/uuXdIiXQ/EF/JFqN7LpltZD7eLq+lvFjusggRmQlgdhOVXA5j+XJqp4euPEera54ut7+/fT7iW2tmsYtgcaaJEk2/LnDOCAzdieM4ANauleFb1Lb7B4hutK1LShA0QsINMaKOQswYvKJJpfMOQTk85ZiSSax9O+FsGm69rV7ZSaVpsOpWxtof7I0kWlzZDBAaOYSHDYPzEKNxCnjGKb7eX9f8DstAW9/P+v8Ag92XfCey28WapYWN9qUlpBbx74NUnneQzbnDSRicmTyiABuB2Ej5ckNXS61qiaJod5qktvNcx2cLTPFBt3sqjJxuZR0yeSKzNI8PahDrg1fXtTgv7uK1Npbi1tGt40jZgzFg0kjMxKrzuAwOnJNaHiDTZtZ8OahpltcJayXlu8AmkiMgQMME7Qy54J7ilK/Lpv8A1/X4Djbm12/r+vxMqz8c2M5umv7DUNKigs/t6y30SgTQZI3qqszA9PlcK3I+WmP46jt7O8m1DQdXsZbaza+S2uFgElzCmN7JiUrlcrlWKsNw45qK68FXOp3X/E21K3ltJNI/s2aKCzaN2bIJlVzIwXkAhSrY9TTb7wdq2r2t42r63aT3z2E1haTRacY44El2+YzJ5pLudi8hlAxwOTly8vP9bfp/Wyjuuby/S/6/1vbsfG9rdSTrcaTq9kI7VbyLzbTzHuIS23ckcReTOcZVlVhkfL1wk/jzTY9PvLqHT9cl+x273Do+j3FtuRRlsPOiJnHOCwJxxUtj4f1G28R2mp3OpWsscOmCykhjsmQu+4MZAxlO0ZH3cHH941oeINNm1nw5qGmW1wlrJeW7wCaSIyBAwwTtDLngnuKJbaef5u34WCG/veX5K/43MT/hP4Ba308uhaxD9lsv7QjjljhV7m3zgugMny46lZNjc9M8VtLqy3GszaSILmCQWq3CXP7soysSvy8k7gf7y4+tYs/g++vbtmvtVt2t5dFbS5o4bJkcs3WRWMjAD0Ug/U1Jpvh/xDba0dS1HXrG6k+xG1EcWltEi4OVf/XMc5zuGcEYxt5Jel/v/W36feLW3n/+z/8AbD/BzXsuk6nBfandXs0Oo3MC3c4TzNqthThVCDA7BQPaneCpLxtO1CPUNQuNRlt9SuIRcXOwOyq2BkIqqOPRQKPDeha5osWorf6vp94buaS4jMOmvD5crnJzmd9y5xxwfeneFtD1jRDfDVdVsb+O6uHuQLawe3KO7ZblpnyPQYBHqaUd1f8AlS+en+TG/Lv+Gv8AmjfkYpGzKjSFQSEXGW9hkgfnXJ6Tr0Nj4T1rW3ttblFtdXM1xZ3ssUk8JQ/PHHiTYEUDgBunvXWSBzGwiZVfB2sy5APbIyM/mK5C28I66vhvXtKvdc0+VtWMzLNFpbxiFpc7yVM7bhg8DIx3Jqddbdvxuhq2l+/4al7TvGC6lPPBHomqwzLaC8top0iRryIkgFAZPlOcfLJsI3DIHOMdfHupTfDvW9fk0C606WxguXgNw8LpIyO6gARyM2RtG7IAJzjIrasfD+o23iO01O51K1ljh0wWUkMdkyF33BjIGMp2jI+7g4/vGoLXwfL/AGLqeh6pqKXWkXgnWKGG2MUsazOztukLtuYFuCFQDuDxipWtp5/m7ferf8AUW7pvy/JX/G5leF7210nUrk6jL4mt5pLEXBGtXHmx3ao3zzxIGfymy6gxgR4DKPLGOLPg2/1q88YeJP7dkZBstJbaxzxZo6yfIeSC/ALEdzgZAFW7LwjcXMwk8ZXtnr/l2jWccZ08RRtGzKzmRGdw7MY05AUccLVPw18Orfw1401DW7SHQoYLqMRxW9lowt5LdRnAEgkI5B+bCjcQDxjFPr/Xf/hv+GJSdjtaKKKRQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVk+KbCfU/Cuo2llNPDdPAxge3uHhcSDlcOhDAZABweRkd6838MXmvanY63qtpaatDLb2s9/pMdzqU8yzfaEzCpRmZWK+Wx2kEL5igc5pXWvkO23mevVT07Uf7RFyfsV3afZ7l4P9Kj2ebt/jTk5Q9j3rgvAWpSXuoXOzV7C400WRa7EHiK41KRJSRh2aSNPs5278oCPZRtNTeFPEWnz+DvEkei+I1vn0+a7aGYXwvpYY/m8tsyOSw443Ng4609r+l/xsJa29bfgdxq2p22i6RdalfeYLa1jMspiiaRgo6kKoJNWIZVnt45UBCyKGAPXBGa8ctZYk8NeJ73VrzUNPkXRZUjstQ1LUnVvlYNMBeJGCSWRcKrBTt+YbsHofDracviiLRoPEN1fR6noKXMiPqzu7sWx5sWG/dZVj/qti8DAGBh21t/XV/oDaSv/X2f8z0OORJV3ROrrkrlTkZBwR+BBFOrg/hhFpFnYXdjY6hcT6jDc3C3drLqM1ybcC4k27kd2ERYc9AW5POCa6nxLPqFr4V1SfRUL6hHaSNbKE3kyBTtwv8AEc9u9JuyuCV3Y06K88s9U8P2fh3WL3w94m1XVzHp5e5aHUGvGgcA/P8AvN6wyHJO3AUBSdny1Q8DatbX/iLUNGOppNa3lihiFj4kutTDMGcSMlw6qyMAVB2HjKdCRktrb+v60FfS/wDXT/M9QjkSVd0Tq65K5U5GQcEfgQRTq4P4YRaRZ2F3Y2OoXE+ow3Nwt3ay6jNcm3AuJNu5HdhEWHPQFuTzgmu8oGFFFFABSMwRCxzgDJwCT+QpaRmVELOQqqMkk4AFD2Az9E12z8QWUl3p4uBFHM0JFxbvA4ZTggo4DDnjkCqUfjPRZbzXoFuePD6q1/LtykZKltoxySAvIA7465A57wprsOtaJ4li8H6ppl7qS6lcvEBdqVUO/wArkqHwCMkHaQSO/Nc54X1nTdN8UeLdN1tPDsenWunRfboItWN622MSeZuRoVMhyx8zdghiM7i1Lon5J/hcOvza/E9H0nxMNS1STTrrStQ0q6WH7RHHeiI+dFu2llMbuOCRkEhhuHHNRr410VrnxBEtwxXw7Gr6hKq7ljyjOVGOSQq8jHfHXIHP6Vrltr73c3hnUtHvdeexZLWC1vEkh0+EMuEd4w+HJYEkKQSgABCZOB4P8QDRPGPim0+y6XL9gsYWlstK1Y3t07RCTcFRokMjlmO8kghiM5LcN/p/X4b+YLf5/wBfjt5HoeieJk1i9msp9MvtLu4oknEN55R8yJiQHVondSMgjGcjuORnbrhfC+q2upePLyXR9Vj8QWlxZCSa9V45PsLCT5LYPFhMEMx243/LlmYFcbfju4S18Aa5cSXb2XlWMrrcR3DQsjhTtIdSCDux356d6UnaPMOK5pcpv0V5Wupy6Zd3Vv4a1641XUbzw59vjinvzdNLLu4ljjJIGQxIWNQhwPl4FQ6jqem2+k6wfDHie8v9MXRLiW+vH1iWY2t0u3yMSl8xSMS+Y1KjgfKO7lp+P4X/AMhR95pen42/zPWqK850OWD/AISiPStO8W3skup6Gl4ZW1BbmQvvGJo0k3omQTwiBMdBwMX/ABPpl5ovgzXL6+8Z6xPHFp8xXz3trcI+3KMJIYY3B3Yx82DnGDRL3Vf1/BtfoEPfdl5fik/1O3psjiONnYMQoJIVSx/ADk/QV5TPPBH/AGhp+meJNQvri+8MNqCgatJJLJMDlJYgrfJnPSMKpHGMV0Gj+LdC1HxxK+neIYLuB9JEr7L4vBuR/mKjdsDKpG7byAV3dRTtrb1/C/8AkK+l/wCteX/5I6TRvEFlrumzX1il0IYZXiYT20kUm5Pvfu2Acc9iAfanaHrtn4hsZLvT1uFijmeAi5t3hfcpwco4DDn1ANc54C8R6Hf2+umw1nT7kQ6lc3EhhukfZEXJDnB4UgHnpT/h7r2j6uutR6VqtjfSLqlxKVtrlJCEZ/lbCk8HsehpR1a/wp/PT/Njen32/P8A4B2VYlv4w0W71d9Nt553uVSR1/0OYRyiMgP5chTZIVJwQhJz9DWjqYtTpV1/aFwba08pjNMLhoPLQDlvMUgpgc7gRj1rjfhjL4dj8N3Nzo+t/bRFJKbovrEl2kCiWQqSHkYR5XnPGepzSA6rQ9ds/ENjJd6etwsUczwEXNu8L7lODlHAYc+oBrSrzjRPEsF74T8WN4P1Kz1HU4ry7nhjtJkncBmO1woznPJXjBIxzVZNZsLAX83hXXtS1jTI9Jnl1GePUGvHtp1KeWVaTeI5CDKSmAAFBKjHJfReif4XDq15tfieoVDLe20FnNdyzxrbwq7SS7vlQLndk+2Dn6V5n4G1a2v/ABFqGjHU0mtbyxQxCx8SXWphmDOJGS4dVZGAKg7DxlOhIzU07TLGb4W+KdF0K7urzWjDexz2TahLcvCfOl2KY3dhGzDpwC/J55NN6K446uzPQtD8SHW7mSM6Lq2nx+Us8M97AqpcIxIBUqzFTwCUcK4BGV64l0zxLpusa7q2lafKZbjSGjS6YAbFdwSFB7kAc+mcdc44rR703t/J/wAK716TWFm0t3umvtReaOC53p5ROQ/kOVM2YwoHyj5Biq3w71HyPiPr2iquhxGG2t0khs9Za6lDR7wxw0Sl23Md5OCGIzktTtr/AF3/AOB+N9NiE3a56pRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKp6vqcGi6NeandhzBZwvNIIxliFGSAPXiuQ0668QS+PbiW+02G1uZNGMkFoNWkmgZvMAG7MYETdmKI3blux1t/Wzf6A9Ff+t0v1O7qC9srbUbGazvoUntp0McsTjIdSMEGuY8Ka34p1bw1c3t/pel/aBJOtssWoPtlZJnXa2YBsA2gBhuJ6kDpUb+M9W/sW51O30fT5YbXShfzL/abhlkIYmHHkdgh+Y4OcfKKTtZ3Grt6G3pPhjTNFumubT7ZLOyeWJb2/nu2Rc5KqZnYqCQMhcZwM5wK165FPG1xYrLJ4n0qPTYf7Ol1KBoLvz2aKLbvVwVUI48xOAWU5Pzccw+G/iLaa9ez2YOmXFylq13HHo+prfnYpAKvtVdkmWGFG4HnDHFU79f63/yZKta6Or1HT4dUsXtLl7hI3xlra5kt3GDnh42Vh+BrN07wnp2l3yXdtc6w8iZwtzrV5cIcjHKSSsp/EVT8JeKrrxLLceZb6UsMKjc1hqhuZIpD1imjMSGJwOoOcEEdq2tM/tTy7n+2fse/wC0yfZ/sm7HkZ/d7t38eOuOM9KNh7l2iobtrlLOVrGKKa5CkxRzSmNGbsCwVio9wp+lcR4H07WNRll1rXpZ4Xm8+Ipb63PPFLmUr/qWjRIigQBWjwTyTyaXUDvaK4rw5e2vhjwnr13dSXMtrp+o3ZJlmeeVlVsBd8jFmPQDcfTmrkXinVLa5ktNe0SG0u3spLy0htdQWYTLHt3ozOsao43p3K8n5uDSurJ+Sf4XCzvbzt+NjqaK47wz45l8SzajaWaaHdXlrbpNGdM1r7XAxYsAjyCIGM5X+63Bz7Vl/wDCVeKG+Fev63qNpY2txbwXZtZbS6aVt6SSIMq0aAbdowcndjJxTd0gVm7HotFebaNNpXgS+up9U8PWugvNppuftUF/5pu0idQ32jIUefumXLkvnef3hxUfw51+z1Hx54k8zxHp+qX17FaziK0vI5UjAWTdHFtPKplQT3JJON2KdhX0uejG9txqC2PmZuWiMuwKThAcZJ6DJ6Z64OM4OHXV1FZWktzcFliiUu5VCxAHU4AJrmrG1utX0vxNHBfPZX91dz2yXSoS1uFUJGQMg8LhuCOWJGM5qDwtoem2fiW5vfDlpbWenrbfZbk2cIiivLgPkuFHBKfMpbkkuRk7TSWqXmr/AIX/AMkN6X9bfjb/ADZ16OssayRsrowBVlOQQe4NOrn/AAYxGj3NupzBa6hdW9vyCBGkrBVGOy/dA7BcV0FHmHWwUU2QuI2MSqz4O1WbAJ7ZODj8jXGaTqjaT4L8Q6ta6Ha217a3d3PdWkd+7xzSocuwlaPIyBx8mBwMUrrXyVx2btbq7Ha0Vy+meJtYvr6ayudDt7S5ksBfWSNqBcOpONkpEf7tgSudvmDk4Jxzhf8ACVeKG+Fev63qNpY2txbwXZtZbS6aVt6SSIMq0aAbdowcndjJxTd0hRs3b+v61PRaK820abSvAl9dT6p4etdBebTTc/aoL/zTdpE6hvtGQo8/dMuXJfO8/vDio/hzr9nqPjzxJ5niPT9Uvr2K1nEVpeRypGAsm6OLaeVTKgnuSScbsU7Cvpc9GN7bjUFsfMzctEZdgUnCA4yT0GT0z1wcZwcT1geG83MmtzXDMZpNRlifqpREAVFHcDaA3Hdie9Zfh3TJ5/CXiDSrDUbq2ma+vLeC8mmkuJYedqtudt7EcYy2eOoqVr91/wAv8yuvzt+f+R111dRWVpLc3BZYolLuVQsQB1OACaejrLGskbK6MAVZTkEHuDXIeFtD02z8S3N74ctLaz09bb7LcmzhEUV5cB8lwo4JT5lLcklyMnaa0fBjEaPc26nMFrqF1b2/IIEaSsFUY7L90DsFxT/r8f8Ahmif+G/C/wDmdBRRRQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAr39jb6np1xY30YltrmNopUJI3KwwRkcjj0rF0nwidM1xNVn1/VtSuFtja4vDBtMeQwGEiXkEE7upz8xOBjcvL210+1a5v7mG1gUgNLPIEUEkKASeOSQB7kVS0/wATaFq9ytvpWtadfTtEZlitrtJGMYbaXAUk7Qwxnpnihb3X9f1qD21K2m+H5NBjvW029ubwOZJLaxu5USCF3YuVDJHuwWPVt5A6dwaU/h2+PgXWbC1itU1PVkuHkRrl/JSWYEEB9m7aAeuwZx0GeNSDxT4fubW4ubbXdNmt7WQRTyx3kbLC5OArEHCkkgAHvTtP8TaFq1ytvpWt6dfTNEZlitruORjGG2l8KSdoYYz0zxSsmrDTs79mZGjeDFjsw3iK7udTuZLE2TRTzrJHbxMBvjjZY4ywO1fncFztGTV+w8OT2lrcQXHiHWL4SwmGN7iSJWt1IxlDHGuW6fM+48deTmSDxZ4curK7vLbX9LmtbIgXU8d7GyQZ6b2Bwv44pT4s8Oruzr+ljbbC8bN5HxAcYlPP3DkfN05HNU3fX+v63/ElKysRaT4cfTtSe/vdZ1DV7ow+Qkl6sC+WmdxAEMSA5IH3s4xxjJze0zTf7MjuV+23l359zJcZu5fMMe858teOEXoB2FR2viLRL68htLLWLC4uZ4BcRQxXSO8kR6SKoOSv+0OKs31/Z6ZZSXmpXcFnaxDMk9xII0QZxyx4HJpf1/XzHuSXETzWssUc8lu7oVWaIKWjJH3huBGR15BHqDWRoPh2XQdMmsl1zUb1ZCxjkult90BYkkrsiUHls/MG/LitKPUbKW/ksYry3e7iRZJLdZVMiI33WK5yAcHB74qppvifQdZknj0jW9Ov3thmdbW7jlMQ9WCk46HrSAz9L8FxWNjqVlf6vqOsWmpF2nhvRAo3PnewMUSEE59eO2KY/ga2u7W7i1jVdT1R7i1a0Se6eMPbxMQSqeWijJKqSWDE7RkkcVraT4h0XX45X0LV7DU0hIErWdykwQnpnaTjoetQaZ4v8N61e/Y9H8Q6VqF1tLeRa3scr4HU7VYnAp+X9f1+geZX0zwobDXBq1zr2rajdGHyX+1PEqOoJK5SONANu5ugGd3OSFwtn4Qs7a01CxuLu7vtNvRKv2C4KeVCsrM0irtVWOSx5csR2I5zo6Zrmk61539j6nZ6h9nfy5vstwkvlt/dbaTg+xpdM1ix1mO5fTZ/OW1uZLWY7GXbLGcOvIGcHuOPSjfT+v61/ENtf6/rQz9E8Lpo90tzcarqOrTxwfZoJdQaNmhiyCVBRF3ZKrlm3Mdo5o07wwdO8Uahrf8AbOoXL6gqrLazLB5Shc7Au2IP8oYgZY5zzk81uNuCHYAWxwCcAn61jeF9YvdZsLqTU7W3tLm3vJbZoreZpUGw4yHKqTnr90fSi93b+v61CySHX2gG6k1AW19PYx6jbmK4NsAJBJgKsqMc7XC8cg5wvTbzV0/wtdaYpaLxFf3Usdsba1+1wWwjtlO3lUhijz9xepIGPrWprerQaFoN9qt2GaGyged1XqwUZwPc9Kw/CWuajrF9eLe6t4dv0hRfMg0mRmlspiW3RS5dg2AMBsISVb5B2F2/r+v67A9r/wBdDWl0kW3heXStL3KfszRRMbhomLEH5jIoLBiTksATnnrVrS7SWw0eztLm6kvJreBIpLmT70zKoBc+5Iz+NUfFl9qOmeEtSvtFFub62gaWFbmNnjcjnaQrKeemc8Zzz0rj9Y+IWqSam0Hh02KQR+G31tpbq2eXe3BWMbZExwcnr1FF9/66N/5jte39dl+qPRpFLxsqu0ZYEB1xlfcZBH51y9t4G8jRNX0ubxHq91Dq3mea8q2oeNpM72TbCBls45BA7AUaDq+vnxGul65Lp16k2nC9SextntzAd4XY6tJJndnKsCPuNxxmuqocfx0/H/NCUu3r/XyZiWfhkWeuW2pnVb+eS3sBY+VKIdkigg722xg7iQDwQPao7PwhZ21pqFjcXd3fabeiVfsFwU8qFZWZpFXaqscljy5YjsRznfooeu/9XBabGFonhdNHulubjVdR1aeOD7NBLqDRs0MWQSoKIu7JVcs25jtHNGneGDp3ijUNb/tnULl9QVVltZlg8pQudgXbEH+UMQMsc55yea3aKAsigmmGHVp7u2n8lLpP38QQHdIAAsgPY7RtOQcgL0xzkad4MfTtL1ay/wCEk1m4GqGRnlkNuskDvnc8ZSFcE57ggY4ArpqKVv8AIDndP8LXWmKWi8RX91LHbG2tftcFsI7ZTt5VIYo8/cXqSBj61s6fYQaZp8NnahhFCu0Fjlm9WJ7knJJ7kmrNFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAw/GlpcX/AIL1Ozs7F9Qmnh8tbVCgMmSAR87KuMZJyeg79K4+fw9rWpXd9BHolzpwvDqcYvXkt9sfnRxiNyFkZsHZjhSRgZA4r0yilbf0t/X3Dvt5O55W3hvXLrRNRe703Xru4GmGwis7+XTQkgZ0ysYgCKVG3rIy4HAXJOJL3w3req3F9bQ6JcaeLx9RUXcktvsAlWLYW2SM21tm3hSQByBxXqFFP/Jr73f8ybf18rHGW6apLrkWtDwzd6dHp2nSWgsVltjJdlnjKhNsmwIgRsb2U/OeB3f4L0620fwbavrehrotxp1uyTzXzQMcFFMsnmI7gIdozkjhBkAAV2FFHT+vX9RnN+C4WOnPd/aEurdj5FjNG4ZZLWMsImyOuQTz0Iwa0/EVjNqfhjVLC12+ddWcsMe44G5kIGT9TWjRQ9RxfK7nE2763qGtXFzeeE7y2tn0hrYR3F5b7pJASdh8uRtobOAwJ75C4GaVrYeIpNI1a2j0e7eL+z2htIPEP2KRs9FhRoGYNHtBz5xyTtyxyxHodFH9fn/myUrf12t/keXLa69a/wBvX2tadq91Y3GjPBv1RrNpU2CQ7PLs9uQ28YwSfvZK4AMHhmSTxFZa7pMetWuqaje6U1vHqNhqsV7FbIAypHIY7eEIcyMVyrMwD8/LivWKKPL+uv8AmPbVf1t/kcP4N0bVItZF/q6a3E1tZfZI01KSw8vBZTiNbVBlRs4L4xnheTjq9Mur66juTqWnfYGjuZI4V89ZfNiBwkvH3dw52nkd6u0U7/1+IkrCMSqEhSxAyFHU+3Ncd4Zn1200vX3m8L3lvcm6uLyzgubq2Aut5LLHujkfYcjBJ4GQcnmuyoqerflb+vuH/wAOYWv6VdeKfAN9pk8aWN3qNg0bRSMJFhkZPukj7wB4JHWs3QbPUL3xFZaneeH20BNP0x7IwtLC/mlmjICGJj+7TyzjcFPz/dHNdfRVdb/11/zF0t/X9aGZ4kFw3h28Wyspr6dk2pbwsis+SBwXZV468kdPwrzE+EfEOkRXtvb6Fdaj5+mahZxSW8tuiortHHbp88qniKFSew3YHoPYaKm36/irFJ2OB8I6HdWPiK2m03wwfCulw2Tx3luxt1F7OSmxxHA7rlQrZdsMdwHI6d9RRVN3JSsFFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/9k=)

Figure 4: Splitting using hash

For hash can not meet our demand, we can use functions in Scikit-Learn to split dataset. So we choose to use function train\_test\_split which can solve the problem above.

However, function train\_test\_split is a purely random splitting function. After searching some relevant material in internet and asking friends learning medicine, we know that smoking is a very important attribute to predict someone has cardiovascular disease or not. So we need to ensure that the test set is representative of the various categories of incomes in the whole dataset. To achieve that goal, we can use function StratifiedShuffleSplit. The test set has the same proportion of each categories in attribute smoke as the whole dataset. The result is displayed in Figure 5.

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFppeHVhbiBDYWkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5NQAAkpIAAgAAAAM5NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDowNDozMCAyMTowMDo0NgAyMDIwOjA0OjMwIDIxOjAwOjQ2AAAAWgBpAHgAdQBhAG4AIABDAGEAaQAAAP/hCx1odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIwLTA0LTMwVDIxOjAwOjQ2Ljk0NjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5aaXh1YW4gQ2FpPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAO0DLQMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APoiiqerXkmnaPd3sMKzvbxNKI2k2BsDJGcHHHtWbba5qc0iwS6VBDPcWxuLRTeEq4BXcrkR/Iw3r0DDrzUOcU7P+t/8mTKai7M3qKwtH1vU9WjguP7GEFrPAXWV7nkOMcFdudpycN14ztGRmtp1+bHw7rN/BpcMNzBczyTwLdsySyL95g5TIyB/dpe0W/Szf3WJU07W6+p01FYNjruoXd21rNpkNvNJaC6tlN3uDDONrkJ8h5HTeOvNO8Lalquqaa1xqtvaxAyyqjQTs5O2RlwVKLgDGAcnPXiq5k3b+tNAVSLdl+X9dzVN7bi/Wy8zNw0Zl2BScIDjJPQZPTPXBxnBxW07XtN1aVo9OuPPZYxIcRsAFLMoOSMclWx6gZHHNZ+gIL4a413uaSbUJYJBkqVRQERR3A24bjuxPerl95Xh7Q7+906yiZoY2naLfsD7V6bsHGFGAMYGAOBQ3ZKT2tf9TojGMrx+1ey7dv62NSisKDW9SknFtLplvDcz25ubVDeEq6qVDB2EfyMN69AwOevFQWvim6k0tNVvNIa301rTz/NFwGff8uE2EDhiTtbPOOQMijmRXsJvb80dJRXOXXiS/wBOt7j+0dLgiuks3vIIkvC6yrHjepbyxtYbh2IOevWnHxPLZq7a1YC1VrVrqAQz+aXVSoKtlVCvl04yRz97ijnX9fP/ACH9XqdvxR0NFYces6mLn7Fd6ZawX0sBntoxelo5ApUOrN5eVYbl6KwOeD1pul65qurWsF1DoqRW9xa+bHJLd4/eYXCsNmQpycMMn5eVGRRzIXsZpX0+9f5m9RWH4b1HV9S0l7jUba0Ri0giMVwzbiHYYIMY2gYAz8xPWoNK1G207QNSv5rFbMxXc7XEUExm3yhsEqzBfvHoMAfSjmX4XG6Mk3HqnY6OiucuvEl/p1vcf2jpcEV0lm95BEl4XWVY8b1LeWNrDcOxBz161b0vWbu71JrS/wBPS0ZrdbmIpceaShJGHG0BWHHALDnrQpJu39df8mJ0ZqPM9vVGxRTXLCNjGAz4O0McAn3ODj8q5ux1D+z/AAvq+o2+mQwz29xcSz263TMskik72DlM844+X24ockt+1yYU3Nad0vvOmorH0vWbu71JrS/09LRmt1uYilx5pKEkYcbQFYccAsOetak5lW3c2yJJMFOxJHKKx7AsAcD3wad9LilBxfKySiuc0jXr7/hG7nVdegtooYFlk3W85dmCM2RtKKBgDA5Oe+KNI8Xw6nPNBi0mmjtzcKmnXgusqMAqcAYfJHHIPY1PPE1eHqK+mx0dFYOj69eavFcNDbacxjQFRBqJk2yf885B5YMZ9eD3p/hjUNU1PTTcarb2sQLuEaCdnJw7DBUouMYAByc+1NSTJlRnBNy6ea6m3RTJpfJt5JdjybFLbEGWbA6AdzXP2Hioz2F7fXkVktrZwmWRrO+89kIBJR1KIUbA6H6UOSTsyY0pzV4o6Oiub0jxYNXnltLYadNeCAzxJa6iJ0wCBtkZU+Q5I6Bh6E4qz4Y1DVNT003Gq29rEC7hGgnZycOwwVKLjGAAcnPtQpJ7FyoVIJuWlrfibMsscELyzOscaKWd3OAoHUk9hTutVbRbx4Z01UWzFpXEYgDYMWfl3bv4sde1ZUepTaX4WvXCC6uNIV0dJH2b1QblJODyYyp6dTRzJK7JVNydo73sb9Z+na9purStHp1x57LGJDiNgApZlByRjkq2PUDI45qpY6ncandy6dqmnLarNaidPLuS5MbEqQ2ANrDj7pYc8HitS1sbaxVxaQpEJG3NtHXgAfgAAAOwAAp6t+QOKgmpb/KxPRVTVtSg0bR7vUrzf9ntIWmk2LuYqoycDueKy7TWNdFnd3Or+H4rZYrfz4Ft9RWUycEmNy6oEYYHOWXn73FMzsb9Fcb4e8c3HiJ9QtdPi0K8vbWCOaP+z9b+0wNuLDa8iwgow25+42cilsPG2oT6Kuu3/h5rXRv7Oe7e4W7DyK6hTsEZVcq2W2vnnbyqggkEtTsaK4nSbnWpviFLJqlillLJpHmR20epvcRE+YAMgoojbs21SDxy3abQtWs9H8La3q15pkenNb31zLew2ty1wJJg2GZWdUzuIGBgAULa/k39zsH/AAPyudhRXP6Xr+ovrMel+INLt9Oubm3a4tRb3puA6oVDqxKJtZd6cDcDk4PFbdy06WsrWccctwFJjjlkMaM3YFgrED3wfoaOlwJaK4/w74p1ZvCN/rniu0sba2tPtMnmWd00rMsckgIKtGgGAoAO47upxTfDnxDtddvZ7MHTZ7hLVrtI9I1Nb87FIBV9qrskywwo3A84Y4oA7KiuU8O+K9R8Qw3jW9no7tBHlFttXMpSX/nlOPJDQt6jDEc8cVL4I1fXta0l7rX7OxgHnTJE9rdNKW2zOuCpiXaBtAByc9TjpTsK501FRzy+RbyS+W8nloW2RjLNgZwB3NclpHjtrzTNT1PUYdMjsdOt2nmaw1P7TJEVBJiljaOMxyAD7pzzkHGKm4zsaK4zw98QE8RXc9hZf2Ncah9la5t4rHWBdR7QQNszrH+6bLDoHHXBOKu+CNX17WtJe61+zsYB50yRPa3TSltszrgqYl2gbQAcnPU46VVhXL1v4o0y5kvli+27bASGeV9PuFj/AHZKuEcoFkIIIwhJ4rTtriK7tYrm3ffDMgdGA+8pGQfyrK0GFLnQbiGXdskvLxW2uVODcydCMEfhWqxSzsz5UJKQx/LFEvOAOFUfhgCp23L0a03JaK5eHxZdy6XeXqWNhOtsisUtdR8xgxIBRwYwUcDse/BI60L4vnt5Jf7W02O3iiSfLwXXmkvEygqAUXg7xgkjnOQBzU88Tb6tV7fijqKK5bVNUvJNLv7DVrQafcSafLc27Wt4z5CAbgWCoVYFl4GQQep5qaw8TJJpt5fBIX0mwhz9rjn3NKyoCwCFQMeh3c8Y4NHOv6+YfV52uv62+83rm4jtLWW5nJEUKGRyqliABk8Dk/QVH/aFv/Zf9ooZJbYxecphieRmXGRhFBYnHYDPtWJpPiS28Qzy6bK1mzyQGT/iX6h5+EyAQzKFKNyOmfY10UcaQxLHEioiAKqqMBQOgApp3V0ROm6fuyWv6FLSdZs9btpJ7D7QFikMUiXNrLbujYBwUkVWHDA9O9X6ydG/5Cevf9hBf/SaGrmpz3ltpdxPptol5dxxloreSbyhKR/Du2tjP0NU2kr+Sf4GSTbsWqK5fTvFd7qNkt7BptrNa/2Yt7IYL/LiRgSIgHjRcYB+ZmXHdRUXhTxlH4rvL7T2bSZGggSQy6Nq/wBtTDll2lwiFGG3075zTs726h0v/X9anW0VxGi3Uvh3wZ4hurKJ75tOvrt0jvLyQs6o2cGVg7E7RwTnoBWxfeJxpd5f/wBo26R2Nnpv9oeek252UZ3KUKgDGODuOfapurJ91f8AC4Wd/m19zt+qN+iuR8K+PrTxJqr6cJdKe4MBuUGl6ot6FQFQRIVVdj5YcfMDzhjiuj1bUoNG0e71K83/AGe0haaTYu5iqjJwO54pvRXBauyLdFc2niPU7DSr7UvE+ixafa21sLhGtr0XDN1zGwKJtfp0LLz97iqV54w1jSre6XV9CtLe9Wwlv7WCPUjIkyRbfNRn8obHAdeArA5+9waAWux2NFc1rPie80ttT8rTYJ1s9MOoRFrsoZcE7kP7s7enBG7PoKbpniXWL2+ls7nRLe0uZLEXtkjX5cOpONkpEf7tgSudvmDk4Jxyb/16/wCTDpf+un+aOnorlvCGua9qeg3F/r2n2iBJJxF9huWmeTZK67dhjTGNoAOTu6nHSn+E/FN14kluPMt9LWGFRlrHVPtMkTnrFNGY0MTgdQc4II7UdbB0ubV3q1nYyvHcSsHjgNw6pGzlYwcFjtBx7euDjODi0jrJGrxsHRgCrKcgg9waxPDTNPNrNxOS07ajLG2QRtRAFRee20BvqxPem+DmI0e5t1OYLW/ube35BAjSVgqjHZfugdguKFqvlf8Ar70D0++35/5G1LdW8E0UU08cckxKxI7gGQjkgDv+FS1zGkH+3vFV3rLfNZ2G6ysfRm/5ayD6n5Qe4FT6HClp4h15FklZFeFszTPIVzHk8sSQOTx0Fa14KjJRe9tfJ72+7fzKqR5JKPXqdBRXKaZ45t9Uv4be3+wOboP9mSLUFklBVSw81Av7sEDsWx0NWNI8T3moTab9r0tLWDUUcwst15jBlGSGXaAARnByT0yB25lUjLYwVaD2ZuTXsFvc29vLJia5JESBSS2BknjoB6njJA6kVPWDp8u/xdrstyxzbRwRRAg/LHsLkj6sWBI67AO1R6D4g1bW/IvTokcGkXkJmtbgXgaYrwU8yIoAm4HIw7Y6HHbQ1OioritD8fvrOvtpKxaMbhoJZY4bTWluZYmQqNk6qmIz82CVLgEEc9Ta0jxRrmpSRmXw5HFbRXU1tfXCX+4QtGXG6MNGplTKAE/KQW4DYOADq6K4G11jUtb8X+GdSlsTZadeRzva7dQdzLGYsqZYdoRWwQQQXIyRkdDraDcRx694muL7TLfT7uKSL7VPBdvOs6CLKMdyLtIU4KgEe5oem4LV6HUUVy2meLr26udMk1HSYrLTtZJXT51vPMlYlDIglj2AJuRWI2u+CMHGa6g52naATjgE4oem4bi0VynhbWvEeo6nq6a5YaZb2tndtCHtr55GQiONtu0wqGHzE7iQcnG3AzVLw98TtO8Qa1a2UMulsl/u+yJa6olxcjapb99CFHlfKp6M2DgHBoWtvS4bX8juKK5XRPF13rWvz2CWempHDv8AMjGpk3kGDhTNbmMFA3Yhm6gjIOaPCms+JNU1XVota0/TYLa0u2gV7a+eVkIjjYLtMK7h8xO4kHJxtwM0LXbtcHp+R1VFFcronjC51jXriyNpp0UMG8yoNSzeW4BwpmtjGpQN2O5uoPIOaAOqpGYIpY5wBk4GT+Qrh/D/AMTtP1/WbWzt5dLdb/d9jS21RJ7kbVLfv4VX91lVPRnwcA4NX/Cms+JNU1XVota0/TYLa0u2gV7a+eVkIjjYLtMK7h8xO4kHJxtwM0Wb08rhtudJaXcF9aR3NpIJIZV3Iw7j6dj7HpU1YHh9jHrviK1jP+jw3qOigjCO8KO6j0yx3fVye9b9AGdBr2m3WpNYW9z5lyrSKUCNwU27+cYwCwGc4zx1Bq9FLHPCksLrJG6hkdDkMD0II6ioLPTLOwYtaQLGxUIWySSBk4yfck+5JPUk1T05ntZNQ09NryW7maBGO0FJMsoyAcAMHXocAVN2lqayjB35PxNas2LxBps9+9lBcGS4QyBkSJz/AKvG/nGOCwH146gis7R/Et5qUmnG70tLSDUoWkhZbrzHBUAkMu0AA5OCCT0yATgbNnplnYMWtIFjYqELZJJAycZPuSfcknqSaLt7DlBU7qpv5Nf8EktLuC+tI7m0kEkMq7kYdx9Ox9j0qasDw+xj13xFaxn/AEeG9R0UEYR3hR3UemWO76uT3rfqjEo61bT3uhXtrZiMzzwNEnmuVXLDGSQCe/pWdpvhyeC1SS71K7N8LYQJIJI5BbLkEiPMYDZwPmdSxwOa2rm5gs7d7i8njghjGXklcKqj3J4FVU17SJIriWPVbJo7X/j4dbhCIf8AeOfl/Gs2o3bfb/P/ADZnJRck2JpWlNpWlixW/urlUXbHJMI90YxgAbUAOPcGqUHhfydO1CyfV9Qmj1DcZGcQ7lLfeK4jAyffI9MVoRaxpk8vlQ6jaSSeT5+xJ1J8v+/jP3ffpVfT9Yil0251C71HTHs0mby7m2mBjWPgDexON3r26UNQej7P7uv9eQvc0S/MLbQlttUgvvt11K8NoLURv5e1lznccIDuyB0IHtUmmaOmlPL5N3cyQszNHBIV2Q7mLNtwoJyT/EWI7Y5p8etaVMty0Op2cgtRm4K3CnyR/t8/L0PX0qPR/EOla9G7aVfQXJjJDpHIrMuGK5IByAcZBPUU043Wuuv47gvZpqz/AK2JYtO+z6xNeW8oSO5QfaIdn35BgLID2O0bT1yAvTHLddtLi/8AD9/Z2YjM9xA8Sea5VRuGMkgE8Zz0qlY3FzqeoaleQOwS0d7O1hZysbsuN7sB1+f5R1wFJH3jSabYyaDFcXmt61JLGqBN9zPiNBkkucnAZmb8BtUdMly1Vns0dVPR8yeqe3cLDw9NFAst1qV2b77OIElDxyfZlyCyx5jAOSo+ZlLHA5qzZaDDa6CdIuLm4vrXy/KH2jYGVMABQUVemOvX3qVdd0h4biVNUsmjtTi4cXCFYTnGGOfl59akg1XT7q4EFrf2s0xiEwjjmVmMZxh8A52nI56c0e6VKVXqvwMm+8NzSaTfrHeTahfT2j2sMt/IqiJHHIHloPYk4JO0DNPsfDSG1/4nM017M9r9mKyyhlhQ4LKhVUJyQPmI3fKOeKvRa9o89rNcw6rYyQW5AmlS5QrHnpuOcD8amtNTsNQeVbC9trpoG2yiGVXMZ9GweDwevpStG/8AXn/mU6lZRs1a3l6fcUotAaMvK+rX810YvJiupPKLwoSCQo2beSBklSTgc8CrOj6Z/Y+mx2S3lxdxxALG1wE3IoAAX5FUEcd8n3psWvaPNaz3MOq2Mlvb4E0qXKFIs9NxzgfjThrmkksBqlkSsP2hh9oTiL/noefu8jnpzTXKtSZe1as1+BHp+jDTVmSC+umicuYo3KbYNzFjtwozyf493T65gsvDcVrZ3lpc313fwXjM0iXPljDMSWIMaKQST+HbFTaX4j0jWbeWbTtQt5khyZNsqkoASNzAHgHBIJ7U/R75tQtJbg3VjdRNO4gksZN6GMH5QTk/N644pJR6dvwHJ1Y83No7q+mtynJ4XjuLW5ivNTv7mSe3a2FxIY98UTY3KuEC84GSQScDngVZttFFvqkV8b66leO1FrscR7WAOdxwgO7PPBA9qfFr2jz2s1zDqtjJBbkCaVLlCseem45wPxqa01Owv5ZorG9trmSA7ZkhlVzGeeGAPHQ9fSmuW+n9b/5sUpVbO609PT/gFh1LRsquUJBAZcZX3GeKxIvC4j0rULCTV9Qmiv8AeZGcQhlLk7yuIwOc9wcdsVtu6xxs8jBEUEszHAA9SazLDV4pNMuNQvdR017NZn8u5tpgYhHnC7mJxu9e2aGk3r2/AUHNK8e6+/oOttFFvqkV8b66leO1FrscR7WAOdxwgO7PPBA9q06q2mp2F/LNFY3ttcyQHbMkMquYzzwwB46Hr6U+7vbXT7Zri/uYbWBSA0s0gRRngcninpYiXPKVmtSja+H4Le3urV7m5uLS4DqLaVlCRq5JYLtAJznqxJHYjmnW2jyQW80U2r6hc+ZEYkeV0VohjquxF+b/AGmyePrVbU/FGn2+lXU+m31heXUMUjpALpcuYxlhxk5A7Y/LrV/T9VstRV1tby2nmhAE8cMqsYm9GAORyD19KlcuyNZe2UeaXX/gf15kVho5s71ru41C6v5zH5SvcCJdi5zgeWi559c+2MnLtM0hdLaQRXdzLCzMY4JSuyHcxYhcKCeT1YsR2PXMlpqtlqUUraTe2l60XDCGdWCt2DFc4qDQtRudSs55L2GKCaK5kgKQuXUbGx94gE/kPpTVr2Qpe0s+by/4GhfuIftFrLD5kkXmIV8yNsMuRjIPYisyHw/HuuG1G9utSaeA27G5Ea4jPVR5aJ19TkjtjnN2y1Ow1JZDp17b3Yjba5glV9h9Dg8GrVFk9SOacPd2/MoadpslgSZtTvb75QqfaSnyD/gCrk+7ZPv1pNM0hdLaQRXdzLCzMY4JSuyHcxYhcKCeT1YsR2PXNSy8SW2oa7NaWc9ncWkNv5puYLkSYOcFWxwuOvU9e1XLfXNJu7Wa5tdUsp4LcZmljuEZYx/tEHA/GknF6mko1VdNb26fd6E1jZfYo5V+03Fx5szy5uJN5Tcc7V9FHQDsKo6jorahNdp57w219aeRcGMjeCDwVBUjlWYEn0X8JdK8Q6TrUEkum39vOsWfMCSqSgBIyQDwDgkZ7VPYatp2qK7aZf2t4sZAc28yyBfrgnFHutWF+9hJtqzW+hXttFFvqkV8b66leO1FrscR7WAOdxwgO7PPBA9qsapBNdaRd29sSJpoXRCJmhIJBAIdQSp9wCRTbHWdM1OSRNN1G0vHj5dbedZCv1weKIda0u4tp7i31Kzlgt8+dKk6ssX+8QcD8aejRLVTm1Wqt0+4ii0dJPDEejatK+oobQW1xLKSGn+TazE5zk8nOc89az/+EPSbSryw1TWtV1OK5tzbq1zJGGhQ/wB3y0UE8D5nDHjrgnOjpGv6XrsbvpV9Bc7CQ6xyKzLyQCQDkA4yM9RUkN9Dq1ndf2bdENHJJbmUJzHIp2nhhg4P1BpuV9e5Ps5R92Stbv0MaLwbLHfSX7eKNbkvZIPINwxt+FBJU7BCEyNzfw4O7JBIUi1pnhaCw8LvoF5fXeq2TRGAfbPLDLFt27AYkTjHc/Nz16VctdVhbRE1C/kjtFVcTmZwixODtYEngYYEU+LU7W/W6j0m9tLq5twVZEmDeW/OA+3JXkH8jQ2rWDkknft/wxk6b4QbT9XGpS+IdXvrkWptAbkwECMkEcLEoyCM56nPzbgBg0zwdDY2GpWN9quoava6kztPFeiFQGfO8gxRoQTn14wMYq3omj3enSSyX+p3F6zKEQSSEqACSWwf4mLH6AKo4GTsUbrX+uoppRlaLv8A1/SOci0C80pn1C1u5te1RIvJtv7XuUhWKMsCyhooeM7QSSrMdoBNWdPuvE8t6i6ro+kW1qc75bbVZZnHHGEa3QHn/aFWtP8AEGjat9o/srVrG++ynFx9muUk8k8/e2k7eh6+hqC28W+HL3T7m+s/EGl3FnaYNxcRXsbRw56b2BwufenckhsfCltZ299aSXl5d2F4JR9inZBHCsrM0gXaqscljy5YjsRzl9j4dmtLW4huPEGr3wlhMMbzyRK1upGMqY41y3T5n3Hjryc2rXXtHvrxLSx1Wxubl4BcrDDco7tCcYkCg5KnI+bpzWVp3jOx1XxRcWGn3em3dhb2hne8tb1ZdrhgGRwBhMA5+8c57dzrb+tL/wDBDz/rUt6T4dbTtSe/vNYv9WuTD5CSXiwL5aZyQBFGmckD72cY4xk5htdCu/D9vdvodxJqDSSM9vYX9ysMEG+Qu+144mbksT84c8YBAJqz4d1RtYsbi8F/pd/bNcyC1m0yXzIzEDhQzZIL9c44qxpeu6Rrfnf2LqtlqHkMFm+yXCS+WT2baTg8Hr6UBoZ8L+J75ntdV0zTbC1mjZHubDV5ZZo8qQCitbIM577uOvPSktfCUayXT6vqt/rTXNq1oTerCm2JvvKPJjjznjk5IxxjJz0Fc1pvjKy1fxVcadpt1pt5YwWhna7tL1ZirhgrI4AwmM5+8c57dzS9v66/oGtr/wBf1c0NH0WbSmY3Gt6lqg2BIxetFiJfby0TcenzNuPHXk5bovh9NEluPI1C9nt5Hd4rWYp5dvvcuwXaoY5Y9XLEdARzl1l4p8P6lZXN5p2u6bd2tou65ngvI3SEYJy7A4UYBPPpUWg+MNA8T2802h6tZ3ggLCVYp0ZowGK7mAOQDtJBPUc0AO0XTNU0y5ukutQs7iwkmllgijsmjljMkjPhpDKwbG4jhF7VqXEP2i1lh8ySLzEK+ZG2GXIxkHsRVPSfEGja8kr6Hq1jqSwkCRrO5SYIT0ztJx0NN0zxHomtzTQ6NrOn6hLB/rUtLpJWj5x8wUnHTvR5AnbUqS+FxcxXAu9X1CeWaIRCdhAHjQMGIG2MA5IH3gfbGTTR4StnnZ7q9vLmN2nLwyeWFYS43DKoGGCoIIII9auW3iTQ7y1u7q01nT57eyz9qmiukZLfHJ3kHC4weuKh8PeLdB8VQyvoGq2l8YWZZEhnV2TDFQSoJIB2kgnqOanlRt7eouv9bDW8MpNb3CXWqX9xNNA1stxIYt8UbY3KoCBecDJIJOBzwKevhyD7RLJLd3U0c9oLSeBigSYAEb22qDvwSMgj6cVnaPpJm03VLyG5v5L28mvIczanceWgE8irsUsyx4AABRQRiuisoHtbCCCaZp5IolR5n6yEDBY+560cq6/1v/XzH7Wdr3/rQr6dpslgSZtTvb75QqfaSnyD/gCrk+7ZPv1q1crO9rKtnJHFcFSI5JYzIit2JUMpI9sj6iqcPiLRbhJHg1iwlWIqJGS6QhMnAzg8ZPA96ks9a0vUJRFYalZ3UhQyBIZ1clc43YB6Z4z60XViZRqXcpL8DPstCvv7J1W21XVA91qbsz3WmwtamHMSxgxhnkKsAgIOTz2rXs7b7HYwW3nTT+TGsfmztukkwMbmPdjjJPrWfceILWTRb690S5s9SezjZ2SO5BUYGcEruwcA9qtWup2lzP8AZVu7drxY1kkt1kBdAQDkrnIHI/OmpJ6Ly/4BLpySu13/AE/4BmR+DNJh8P6no0CSxWupyzTTbHwytIcnbxgAdhjHGOaZZeEntNWbUpvEOr3l28BgaSdoQCOdp2JEq5XcxHGDn5g2FxoPe2utaXeRaNf29zJsaItb3WPLYjH30yVPv1qeOwzoyWF3cTTHyBDJOsrRyP8ALgsGUhlJ65ByPWheQONl729/+CY+meDksLDU7K71nUtTttT8wzR3YgXDSZ3spiiQgnPqQOwFMtfBUcd1LPqOt6rqvn2bWU0d40ISSI9sRxrgjJ5XBOeScDFnwzaiwfV7KKe6mht74LF9rupLh1BgiYjfIzNjLE4z3rWvb6002zku9RuYbS2hG6SeeQIiD1LHgU9LJ+X6f5OxGrMe30jVNGtJZLLU7rXbkKqQQ6tcpDGi55+aKHJOO7Kx46jJNNVNf1dJdP8AEeh6RHptzE8VwbfVpZXKlSMBTbp19dwx1rQg8QaNdXEcFrq9hNNLb/ao447lGZ4f+egAPKf7XSk03xBpOuwTv4e1XT9UMPDfZbtJFViOAxTO3OKH5h6FO28KxrZ3Nrq2qajrME8Bt9l88Y2RnqB5aJknA+Zstx160yHwfblbn+1dS1DV3ntXs1kvGjDQwvjei+WiDnAyxyx2jnijRfErS6Hfah4mNjpQs7uW3mYXWYYwjbcmRwucnuQvXpWzHqFlLfyWUV3A93EiySW6ygyIrfdYrnIBwcHvRv8ANfmv+D+YLTbp+n9fkc0/gHz0uvtfibW7h7qyaxlkkNtnyj6AQhQRluQMndznC40rPw0LTW7bUzqt9PJb2IsvKlEOyRQQd7bYwdxI7ED2q7put6VrPnf2Rqdnf/Z32TfZbhZfLb+620nB9jV6jz/rr/m/vFbp/XT/ACX3GHp/hhNNhvoINV1E29z5vlQl0UWnmMzMYyqBs7myC5YjHGOcu0nw62nak9/eaxf6tcmHyEkvFgXy0zkgCKNM5IH3s4xxjJzb03XtI1l500fVbK/a2bbOLW4SUxHnhtpODwevpVeHxZ4duLK6vLfX9LltbMgXM6XsbJAScAOwOFyfWhD30JJdLnS9urnTbtbVruLEqtDvHmgALKORyFGCDnOF6Y5d/ZRtvDzaXpVwbRhCY47hgXZSernkZbJJznrzTrnXdIs2uVu9VsoGtYlmuBLcIphRjhXbJ+VSehPBqOHxLoVwt61vrWnSjTxm8KXaN9mHP+swfk6HrjoacZcruug07O6LGl6dBpGlW1hajEVvGEX39T9SefxqpYaE1hqtzfHVb65a5x5sUyw7DgYX7sYPA9/rmmeHvF2g+KYZX0DVbS98lmWRIZ1dkAYqCVBJAO0kE9RzU+meI9E1uaaHRtZ0/UJYP9alpdJK0fOPmCk46d6U7zlzS1e5MvefMyOz0H7CdsOqX5t0Vlgt2ZCkGemDs3NjsHLAenAqG08LxWf9lbNRvXGl7xEH8r94GGCGwnoccYptrv1681ORri5gt4HexgWGVo+RjfJx/Fu+UdcBePvGrPh3UZtR0nN3g3VtNJa3BUABnjcqWAHQNgNjtuxUqK0+/wDr8CXTj/X9eX4E8+mh9Wiv4ZBG+ww3ClNwnj5KqfQqxJB54LDHORm6b4Si00CAarqVxp8cbR29hNKnlW6kEYVlQSNhSQN7tgdOQDT31G7vfGaadYS+XaWEPmXzBQd7uP3ceSOOPmOOxFWNK1K8vNU1K0vreCA2boqeTKZNwZd2SSq89OMceprWpT9nZS+0r29e/wCfozWacGr7v+v6+Rk2fgNbOWxkHiPWpDp8RhtVZ4FWKMgDZhYgGHyoctlvlwSQWB0fD/h1tBhuYX1i/wBTjuJGlK3qwDYzszOR5cafeLEkHI9MVeTV9NluLi3j1C1ea1BaeNZ1LRAdSwzlfxpLXWtLvrj7PZalZ3M2wSeXDOrtsOMNgHOORz71nzJ9dzPmjtcxLLwNDYalp91FreqvDphYWdm7wmKGNlKmP/V7mXGACzFhtGG5ObWmeF207Wr/AFGTW9Rvhf8A+utrlLfyuAAuNkStwox97nvk81LHcSaj4pngWSSO30tULKjFRLNIpOG9VVCDjoS/qoq1ba9pF7qk+mWeq2Vxf2wJntIrhGliwcHcgORyR1HenuVsZNv4SGmNHNa3l1qH2BG/sywvp0WC1baVADrHv+6SoZ/MIBOKntrzxc91Et5oeixW5YCSSLWZZHVe5Cm1UE+2R9RVq18T6DfXN1b2Wt6bcT2as1zFFdxu0AU4YuAcqAeDnpRa+J9BvZLSOy1vTrh74MbRYruNzcBc7igB+bGDnGcYNCBjLTw8llrt3qMOoXnlXchmksSU8nzSioX4TeTtUcFivfGcER6R4a/se4XydY1KayiUrb2Erx+TAD0AKoHYAcAOzAD6Ais/jC0k8ZWehadc6feFzKt35V4HmtnRSQrRAHGcHkkdMY7i5ousf2vqWqG21HSr6xt5Uih+wzeZJEwX94s2CQG3dAO3WhB3ILDws1pqdveXmu6pqn2QMLaK88jbEWG0nckSux25HzM3XJyQCHpoMun6nf6npl5cSvckzDTppUjtmn2Km4sIzIMhQOSyjqFzirtpr2kX+pXGnWOq2VzfWufPtobhHliwcHcoOV545q/R5gYNteeLnuolvND0WK3LASSRazNI6r3IU2qgn2yPqKSw8LNa6nb3l7ruqap9lDC3ivPI2xFhtJ3JErsduR8zNnOTkgERP4wtJPGVnoWnXOn3hcyrd+VeB5rZ0UkK0QBxnB5JHTGO40rLxHoep3txZ6brOn3d1a58+CC6SR4sHB3KDlcHjnvRoBW0jw1/Y1wvk6xqU1lCCtvYTPH5MAPQAqgdgBwA7MAPoMPtfDwstavNQtdRvFS7czNZMUMAlKKnmcKHJwo+Uvt74BwRFonjbw34iv7iy0TWrG9ubdirRQ3KOzABSXUA5K/MBu6ZBFXLDxFomq389lpmsWF5d2+fOt7e6SSSLBwdygkjB4570f5fgA/TNOGmWJiDmeeRmlmmb5TLI3JY+g7AdgAO1Q+G9NutJ8P21nf3ct5cR7i8sszSsNzFgu9vmYKCFDHBIGcDpTrbxHod5q8ulWms6fPqMOfMs4rpGmTHXKA5GO/FSW2uaTeahc2NpqllPeWn/HxbxXCNJD/vqDlfxouBeqheWMs2oW9zbS+UVSSGUg87GGQQCCCwYDGeMFvpVDR/GnhrxLeXVho2t2V5cQMVaO3ukZ2AVSXUKclRuA3DuDUmg3Msn9oaTeSPLLp03kiZm+aWNkDoxI53YbaT1JUnvSauVGXK9BLPwzFZf2UI9QvHXS0ZIlfyv3gYYw2EHQccY6VtNuKnYQGxwSMgH6Vj+H7uUtf6XdSNNNpk4iEznLSxsiujH3w20k9SpPetmiy6DlOUneRS0rTl0yy8rzDNNI7SzzMMGWRjlmx29AOwAHartFFMgyvE8scPhPVXmdY0FpICztgcqQOfrWNo73Nz9h1S20ho7e000wRrDNCxuSxTAjw+3YNhOWKnnpXXUVm4Xk3f+tf8zOUOaSd9v+B/kc/4X08WWhW4uNGe0vLZCCJPKaR2IG4qys3BwByR0HYCqNvDqknh3X7aTRbuGa7eeSBHlgPmeZwBkSEAjvnA9M111FJ001byt99v8gVOyST2Oa0yyurfxBYyf2XJbWselLbl90W2N9wOzCsTxg9AR71a8NQ3tlavYXdi8KwyzOJ2kQrLvlZhtAJPQ87gv0Pbboq7a39fxdxRpqOz/qyX6GNpdvJper31mY5Gt7uVryCUKSqlseYhPY7ssM4yGwPumneLJY4fB2rvM6ov2OUbnOBkqQB+JIFa9FEo80eXysdEJcs1PzucppjXNxNaarbaS6W1rpxt444ZoWN1uZCNmH27FCHBYqfm6Cm6f4fefwKNPbTf7O1BLUwbpzGxZiq7zuQt8rEAHvgdOBXW0UnFO5t9YkvhVtu/T5nFa6k8mmajqV1YnR7e20ie1KTSRfvWcDaBsYjau0gZIOX6DuDTrvxFYrJZ2qafbjSmtYmMsbLcbyhG3yy37sBCMnB+c/LXa0UuT+vv/wAyliWkrLVf1/V7nNxLfSaompjRbi0S1s2txarJCZLgsykAYfaFXacbmB+Y8DvN4T01bPQrJLrSTY3drF5bGXy2ZiQu9gyM3BIHUg/KOOBW9RVKNncylWbjy2t9/wDn5mJ4fW+sbGSzudPlQW7yssnmRkT7pGYbAGz0P8W3t74zrWw1K/8AD2tafNYT6dLdTTSRNcSRFXDsSFOx2I44PHfjNdZRS5NLeVivbu7lZXbv1/zOP1Ox1LVLe7ng0aayK6XNZJbGSHdOz7duNrbQiYOMkH5jgDvf020uYPENtINLktrVdLSDduiCxsGzswrE8DjgY966GimopO/9df8AMHXbjy2Vvn5efkNdisbMqFyASFXGW9hniuSjt9Ul8La/aPo11DPdNcNAjywHzPNJwMiQgEZ5zj2zXX0USje/pYinVcNl1T+457TbS5g8Q20g0uS2tV0tIN26ILGwbOzCsTwOOBj3rX1Oz/tDSbqz3bDPEyBv7pI4P4HmrVFNq6t6/iJ1G5KXb9DhbXQdfj0LWjqQ+13V7av5NvEUGyWZf3i5JAwCF79ATzmrV3o19eSPbW2nvZQyaMtqrs0YRHBz5RCsTjHBwCOTjNdhRUezX9fP/M3+tTvey/q3+Rz9pFeT6zHqTaVLp8drZPB9nLxF5ySpUDaxUKu04yRy54AzmrZWWpXuga3p89hcabLePcPDLNJEw/eE4HyO2CM88fTNdVRT5f1X36ke3a2S6d+nz/M5rw7p16mo/a79NSjaK28hVvHtduCQcKIFGQMdWxjPA5ONbXLKXUtBvrK3ZUluIHjQscDJGOfar9FPl93lIlVbmp2tY424t9WvLu6mh8O/Z1fS/sqR3LwOrMGztKqxGMH5c8ZzkAdbOhW2rxeI5rm+t75oJrZIhNfSW29NrMcbYRjncMde+SOAepopKNne/wDWv+Zo8Q3Bw5V+Pl5+Ry9va6pH4YvtMGlKZY1mEZuGjaO43SMQFXJ4wf4wvOO2cVrCz1galfTXlhfXcNxY+SPt09sjkrvOz9yABu3AA89ySOAexopci7j+sOz91a+vl5+RyUGm6pe6fqVkYru2ilsmggk1A25kjJBAVWhLZQDrvy3Tk84seHdOvU1H7XfpqUbRW3kKt49rtwSDhRAoyBjq2MZ4HJx0tFUo2d/66/5kyxEpJqy1MXw5He2lo1jd2MkKwSSETtIhWXdIzAqFJOMHncFPTg840bGe6njlN7Z/ZGWZ0jXzQ+9AcK/HTI5x1FWaKaVlYznPnbk1uczq8M6W+uaXaQPO+oWjzW0auoJdhsdRuIAAJRjz/Gal020uYPENtINLktrVdLSDduiCxsGzswrE8DjgY966Giko2d/66/5l+2fLy2/rT/IqapenTtIu70CJjbwvIFml8pCQCQGcg7R74OKzdQgvPE3gCeFIm0691LTiBFKxBgeSP7rEDPBOCcZ9q3aKe6aMU7NNHHSR6nqHh2/ht/B8NhcJpxtYor5reRZuOIlCMwMY54faMkcYzjP0KLxLp/iG81K90nXNQhlsUhQX0+nLcKUZjtCwlEwd4xlj0bJXADeg0U3r/Xr/AJk20t/XT/I4LR/C8t18MZNKk0P+x9WFhLaLJdmJ2LvGA7h43c7WIAPIOFHGAKs6QNVk8Yx6jN4VutMtY9JNoN81sTvVwwUBJD8uOFPrnIXgntKKOt/62a/Ub1Vn/Wqf6HB2Om6zq/hXxLpVzpN3os2oTXEtvJdywMriUkhT5UjkejcdDxmrMVwbfW4PEGt2SeFdN02xezkN9c26rKXePYAUcqEXYQu4g5fhRzns6KFpa3RW/C35B/X6nJap4h8PeL9E1DQfD/ifRrnUL+0lhhjhv45GJKHspJx64B4zWPc2uvajfXc9v4O+xq2hPYxxXslq6O4YEIVR2BQgkLnjOdwUcn0Wijrf+tmv1Dpb+t0/0OF8K2fiGDxdPeapaatJa3FmkIn1WWxEsJRnO3bbADB3jH3ujZK4AZ9nZa3D4N1fRRoStMgujC948LwXnmSu6hVDEkbW58wJzgcjJHb0UPVWBaO555o1h4iTWtRudR0zVr62utN+zr/atzYxygoXPl/6MAAG3gA5OPmJK4AaWx0fXdQ0rV9Na31Kwt5tNktbWXV2tGmgZhhUje3LExgdTJls7Tlucd9RR0/rz/zDrf8Arp/kcT4P0fU4tYF9qya1E1vZ/ZETUZLDy8FlOI1tUGQNnBfGM8LycaXg+HUbCzm0y/0yW2S3uJ3W6eWNkuA8zuuwKxbG1ud4Ug4wDzjpKKdxWsc94X1CNvtemtb30VxBd3UjGexmijZWuHIKyMgR8hgflJ4ravkMmnXKLB9oLRMBDv2eZwfl3ds9M1PRUtXVik7O5xctjq0+kX9v/Zl9NC1usUUN81qZT8w+RWRsFAuc7znpycmobjQ9Uv5riJNNltBO16POkki24kKFd21icME2ngkeld1RUcie78jqWKktkvx7W7nJX1nqOoLcXMOjTWRj0yWzS2MkO6dn27cbX2hEwcZIPzHAHdtvpOqDT9R0ow3JXULLcL+4kiLxzMm0xPtPIHGCq4GSB2rr6KfIv6+f+ZP1mSVkl/XzOa8O6depqP2u/TUo2itvIVbx7XbgkHCiBRkDHVsYzwOTjoLm4S0tZbiUSMkSl2EUTSOQPRVBZj7AEmpaKpKysZVKnPLmat6HNaRqE82n+INT0zTrqaSS5aW0truF7N7grbxKFxKqlQWUruIx3rbhVr/SUXUrRYXuIALi1ZhIELL8yEjhsZIz3q1RT0at6Iz1OIstC1+28FaraXsdtqN+sMllYx3AV0mt0yI94bILMDkg8E4zUPhq18RWnii6v9RsNYuLaaxWJJNSmsBMhjZ22BbfC/MXG3JP8WSuAD3tFGt7h0t/X9aHDaZZ6xf+GfE2m3WhXemTX7Xclu13Nbsr+bnav7qRyCMjORj0Jplxa694huL+KTQ7vRo7vRZLGO4uLi3cxynP3hG74U5GCM9DkLxnvKKVtvJW/Br8mO/53/FP80cB4fhl0S6bW/Fl1qWm29nZi0EmtXOnxwKGZeE+zquQCoALleuAvJxpap4h8P8Ai7RNQ0Hw94p0e41G+tJYYEt9QjdslDzhGLY9SBwK62im9VZiXuu6ONm0/UPEHhu/05PD3/CPytpxs45biSE7uOI1MTP+66g52nkYXrVa80jVfELXMqaK+hLHotzpyQzywn7Q8gXYB5TMBGmw4JwfnPyjnPd0UPV3/rr/AJhH3bW/r+rHnmqL4i1aPVGHhO/txcaHJZRJJdWpczHPBAlICncMHJ6NkLxnU0awvLXxVp0i6FNY2MWhpbF90ASFwwIi2o5PABHygr6GuvooWj/rz/8AkmK2lv66f/Io5PQLfU7PQNQ0m80OUiFrpkd7iMJeeZLI6qhViyghsEuFIJGAeSG+EbfVodQlW8sdSt7GOARw/wBrm0eaPkYjje3ZiyADnzCWztOW5x11FC0dxvVWMG136DeanG1vcz287vfQNDE0nJxvj4/i3fMOmQ3H3TS6bDPoHhi4uLmB7i9kaa8mggXeWlkYv5a4HOMhQcdsmt2inGyav/SH1173MXwtpcum6OHvvmv7xzc3bY6yNyR9AMDHtUGk/bz4i1WS40m7tILsoY55JISBsTbyFkJ5PTj64roaKdaTrVHOQVG5y5mzitD0PUrO4skvY9SkGmLIUzJaCCQlSvybFEh3Zzh9vqSSOX6Ppd/Zp4ZRtHlh+yed9pIeHERYEZOH5yTnjPvzXZUVgqaXU51Ritm/6t/kYn2WWx8SXMsaytBq0aqXRS3kTIpGWx0DLgZ6Ap1ywrI8L2WpWGlWGjz+Gkgm0y2aL+0J5YmhmbGC0e1jJ87YZtyr1Ocnr2VFaW0aOjqeZ6Dp/imy1zSbu70jU5ILO1kt3tpZNPiitywQ/uFhwfL+QqA7Z+4CANzDb8JaUzw6g2qeGp9Mu3v5ryOe8NvKxLvJsKmORypVHwen3jjOTXY0U3ruI880TTNZs9Q8K2c3hqaGHRI5ba4vhPblJN0e3zEAfeVYruOVVskfKeSNXSF1WbxN4h+06LqGmwX+zyL2SW3ZRsjCZwkrMCTyMr064PFddRRL3twWmxwGn2F5ZW+gQ6jpq6La+GVaS61OWeEQzqIWjbZhtwViwdi4T7vc9N6Lxz4S1CVbOx8V6LNczny4o4dRiZ2Y8AKA2Sc9hXQ0UP3twWmx5xpel67aT+GbL/hGGjXRYZraW8aeDypWaLaJFAfeUZhlsqG+YfKeSG+HNM8T23iLRri903URbWtu9tJDcPYRwWpYJzAsA3eUNhADEt9wY6sPSaKd9bh0scxpcOq2Ota7bf2UzQ3l093DeySx+QwMMahCoYybtynOUAxk5PAPO+HNN8UW3iHRri903URbWtvJbSQ3D2EcFqWCcwLAN3lDYQAxLfcGOrD0miktLfJfcD1/rucR4es9Yh1uKP8AsrU7DT0EhMeoS2c0VuSD/wAe7xsZiSx/5acbc/dwFqh4Q8MaxYajpUGrNrRj0cPskmksRaSEqUynlIJm3bt2JNvqSSBn0aihaA9TmtGj1HTfEGtQz6XN9kurxrxL4SRmMqYo12BQxkL5U8bQMfxHgG3oNtLH/aGrXkbxS6jN5whZfmijVAiKQOd2F3EdQWI7VtUUdLeVg6/O5jeH7SUNf6pdRtDNqc4lELjDRRqioin3wu4g9CxHatmiigAooooAX7DCOnmge0z/AONH2KH1l/7/AD/41YooAr/YofWX/v8AP/jR9ih9Zf8Av8/+NWKKAK/2KH1l/wC/z/40fYofWX/v8/8AjViigCv9ih9Zf+/z/wCNH2KH1l/7/P8A41YooAr/AGKH1l/7/P8A40fYofWX/v8AP/jUek6tZa5pcOo6XMZrScExyFGTcASDwwB6g9quUAV/sUPrL/3+f/Gj7FD6y/8Af5/8asUUAV/sUPrL/wB/n/xo+xQ+sv8A3+f/ABqPSdWstc0uHUdLmM1pOCY5CjJuAJB4YA9Qe1XKAK/2KH1l/wC/z/40fYofWX/v8/8AjViigCv9ih9Zf+/z/wCNH2KH1l/7/P8A41YooAr/AGKH1l/7/P8A40fYofWX/v8AP/jViigCv9ih9Zf+/wA/+NH2KH1l/wC/z/41YooAr/YofWX/AL/P/jR9ih9Zf+/z/wCNWKKAK/2KH1l/7/P/AI0fYofWX/v8/wDjViigCv8AYofWX/v8/wDjR9ih9Zf+/wA/+NWKKAK/2KH1l/7/AD/40fYofWX/AL/P/jViigCv9ih9Zf8Av8/+NH2KH1l/7/P/AI1YooAr/YofWX/v8/8AjR9ih9Zf+/z/AONWKKAK/wBih9Zf+/z/AONH2KH1l/7/AD/41YooAr/YofWX/v8AP/jR9ih9Zf8Av8/+NWKKAK/2KH1l/wC/z/40fYofWX/v8/8AjViigCv9ih9Zf+/z/wCNH2KH1l/7/P8A41YooAr/AGKH1l/7/P8A40fYofWX/v8AP/jViigCv9ih9Zf+/wA/+NH2KH1l/wC/z/41YooAr/YofWX/AL/P/jR9ih9Zf+/z/wCNWKKAK/2KH1l/7/P/AI0fYofWX/v8/wDjViigCv8AYofWX/v8/wDjR9ih9Zf+/wA/+NWKKAK/2KH1l/7/AD/40fYofWX/AL/P/jViigCv9ih9Zf8Av8/+NH2KH1l/7/P/AI1YooAr/YofWX/v8/8AjR9ih9Zf+/z/AONWKKAK/wBih9Zf+/z/AONH2KH1l/7/AD/41YooAr/YofWX/v8AP/jR9ih9Zf8Av8/+NWKKAK/2KH1l/wC/z/40fYofWX/v8/8AjViigCv9ih9Zf+/z/wCNH2KH1l/7/P8A41YooAr/AGKH1l/7/P8A40fYofWX/v8AP/jViigCv9ih9Zf+/wA/+NH2KH1l/wC/z/41YooAr/YofWX/AL/P/jR9ih9Zf+/z/wCNWKKAK/2KH1l/7/P/AI0fYofWX/v8/wDjViigCv8AYofWX/v8/wDjR9ih9Zf+/wA/+NWKKAK/2KH1l/7/AD/40fYofWX/AL/P/jViigCv9ih9Zf8Av8/+NH2KH1l/7/P/AI1YooAr/YofWX/v8/8AjR9ih9Zf+/z/AONWKKAK/wBih9Zf+/z/AONH2KH1l/7/AD/41YooAr/YofWX/v8AP/jR9ih9Zf8Av8/+NWKKAK/2KH1l/wC/z/40fYofWX/v8/8AjViigCv9ih9Zf+/z/wCNH2KH1l/7/P8A41YooAr/AGKH1l/7/P8A40fYofWX/v8AP/jViigCv9ih9Zf+/wA/+NH2KH1l/wC/z/41YooAr/YofWX/AL/P/jR9ih9Zf+/z/wCNWKKAK/2KH1l/7/P/AI0fYofWX/v8/wDjViigCv8AYofWX/v8/wDjR9ih9Zf+/wA/+NWKKAK/2KH1l/7/AD/40fYofWX/AL/P/jViigDm/Ht9e6Z4TkvdM1H+zp4ri3HntGjoFaZEYOGH3cMc4IPHBFYWpXmt2Nr4o06HxNeTzaTp8eoQ3xhtvOR2WUmFwIvLK/ulb7gbD9ehrrPEmgR+JdFbTZr25s42kSQyWwjLHYwYD94jLjIHbtUaeD/DaaL/AGR/YGltp2/zTaGxi8pn/vlAu3d74pa2ZSaTRh6nL4k0XS5L6515ZTqElrbhTaRiLTWkk2vIh4LLhlwHz8wz0O0Zmu6vrmiW+sWEPiOaVtPawnXU7qC3Jj86YxvDKFRUICgPwFbDjnoT3dro2mWOk/2XZadaW+n7WT7JFAqRbWzuGwDGDk545yay9R8FaVd+GToWmoNDsmmSYppcEMY3Kwb7rIy8lQT8vOKZCWmv9f8AD/8AB3Oevtc1jRLrVNHXWXvyjWCrqd1DDvsjcyvG28RqiHaFVlyB98ZyKdqd5rdjZ+J9Nh8RX00ulaemoQ6kYbbzVcrKTA4EXlkfu1bhA2H69CevsPD+kaXpL6Zp+l2VtYyAiS2htkjjk3DDbkUBTkdeOah/4RLw5/Y39kf8I/pf9m+Z5n2L7FH5O/8AvbMbc++KH/X9f1fqUnrf+v6f4dDMfSvEDaTqM974ouEa4tVeNLS1hX7HIu4t5bMh3Kw2j5wTwSCM4DfBdldN8P8AT7eTxDfzXNxp8EqzutuZbUNGMBQItpHBwXVieck10en6bY6RYpZaVZW9jaR52QW0Sxxrk5OFUADJJP41Vg8NaFa6Zc6dbaLp0NjdMWuLWO0RYpicAlkAwxOB1Hajvbrb8L/5kpPS/T/gf5HNReINVX4YaXfNeZvrySG2lv5YkxD5kojMxUBVyAemAM4yMcVR1nU/EGkpq2mWXiCe5nsnsJYtQuLaBmUzzGNoJVRFVhgBvlCNhxz0J7Sw8OaJpWnz2Ol6Np9lZ3GfOt7e1SOOXIwdyqADkcc9qi/4RLw5/Y40n/hH9L/s0SeaLL7FH5O/+9sxtz74o6j/AK/r8vx3KXhqXUYdc1rStR1SfVEtGgeGe5iiSQCRCSp8tEUgFcjjPPJNb15BJc2csMN1NZyOuFuIAheM+oDqy5+oIqG20fTLPULi/s9OtILy6AFxcxQKskwHTcwGWx71NeWdrqNnLaahbQ3VtMu2SGeMOjj0Kngih7Ajh5tY1yT4S6fqdtqzRaq0lurXT28biTdOsZ3ptAwQ3IXafQitrw1LqMOua1pWo6pPqiWjQPDPcxRJIBIhJU+WiKQCuRxnnkmrSeDPC8elvpsfhvSFsJJBK9qtjEImcDAYptwWx3xmr1to+mWeoXF/Z6daQXl0ALi5igVZJgOm5gMtj3oDoR69BPcaDdx2l/cafL5RZbi2CF1wM8b1ZecY6fTB5ri7PUdR8N/CCzu4dTu9VvXtLIr54t99ssuxMqMRqQMsQZD1HLYzXolZ9noGj6dY3Flp+k2NraXJZp7eC2RI5SwwxZQMNkcHPWl387fh/mPqvI5bTNQ8TnS9YtLj7Tb3EUcX2K41qWyWdnkLKQwti0YGQNhKjJOCGxT9ObVLzQtZs7rW9etL+JFkH22GyFzbKQSMNCjQsrbT2LDB5BxjooPDGgWujzaTa6HpsOmzkmazjtI1hkJxyyAbT0HUdhU2laJpWhWrW2h6ZZ6bA772is7dIVZsAbiFAGcADPtRJcya7oIuzT8zH+H8M1v4L0tbrV7nUppLG3mxc+UGhVoxhR5aL8vBwWyTzya1tdkvI9DuTpk0MF4yhIHmYKodiAOSCMknAyCM44PSn6Zo2maLBJDo2nWmnxSSGV47SBYldzwWIUDJ4HPtU17Y2mpWUtnqNrDd2sw2yQTxh0cehU8Gqm+ZtomC5UkcHJ4g1jRvCurSyXGr3GpQy26i31SGyE9sksgTeGhKwsPvEZbgr8xxVrTZfEV7pWt2Go3OsaaYIUkt726awN5k7iwKw74wvygAlQeW7jNdRYeHdF0vTptP0zR7CzsrgkzW1vapHHJkYO5QADkDBz2qTS9F0vQ7Q2uiabZ6dbsxcw2kCxIWPBOFAGeBz7VMldNdyouzTMbwBDNb+CtLW71e51GWSxt5j9p8oNCrRjCjy0X5eDgtknB5NafhuK1g8OWcen6rNrFsqYjv57kXDzjJ+YyDhvTPtU2maNpmiwSQaPptpp8UshkkjtYFiV3PBYhQMngc+1T2dla6fZx2mn20NrbRDEcMEYREHoFHAq5O8m+5EVZJE1FFFSUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVzvjm+urPw2sdhO9tPe3ltZCeP70SyzKjMvowVjg9jg10VZniHRY/EGiS2DzPbuzJLDOgBaGVHDxuAeDhlBx3xijsMx/DXm6X4t1rw+Lq6urO3gtry3N5cPPJH5pkVk8xyWYZi3DJONxHTAHV1iaBoVzpt5fajq19Hf6nflBLNDbmCNY0BCIiFmIA3MSSxJLHtgDbpskKKKKQznfHN9dWfhtY7Cd7ae9vLayE8f3ollmVGZfRgrHB7HBqt4a83S/FuteHxdXV1Z28FteW5vLh55I/NMisnmOSzDMW4ZJxuI6YA2PEOix+INElsHme3dmSWGdAC0MqOHjcA8HDKDjvjFZEXhbWY7XU7lfEMcWvai0IbUIdPAjhjjPEaQu7cEF8ksTlyewAI9f600/4LB/1/XpoTeO72Sx8M+YLia0tWuoI726gYq1vbmQCR9w5QbcguOVBLZGM1j+EtUtdT1bxBofh7W72502CC3mtdQ+0G6aNpfMDCKabeJVBjBBO8Biw7bR2Oq297daZNDpd8NPu2A8q5aEShCCDyhI3A4wRkHB4IPNZml6DfadBqV0+owXGt6iQ0l21oRChVdsarEJN2xR235JLHdzwLRP8ArsD6f1/XYh8JyXuq/D6ya51G5F5PAQ16oQyhsn5wCpTPttx7Y4rFOo6hJ8G7e+lvbqa6ZYzPLHKI7i4UzAOkbDAErrlVC4+ZgFKnBG54b0LWdA8Kf2VLq1ldXMKstrcjT3jRAeRvj84l8Enoy8fnVLT/AAdqdt4Nh0a71yCS5s50nsry3sTEEZG3KJI2kbeM5BwVyOmD81J7/cC0MqwnEui67HpU+uT2CS20Yspp7k6hA5K+aAzt5yAqy4JYY+ZgQpBN/RbSy1Ww1LRYD4i0a6jlhe7gv9UmmuVjJDKUlE8m1XCsuUfPDdCKtjwpqc0d/dXuuKNXuzBtubK3e3ijWFiyIY/NLMpZm3jzAWDEZWruk6Fe2suo3uqajFdanfokbTW9sYI40QMEVULueCzEksck9hgU31f9f16gun9f18iDwfp0NtDeXlpdX81rdTYt1vNQnu8RpldwMrsRuO5uDggrXSVmeGtHPh/wtpmjtcm6Nhax25nKbPM2KF3bcnGcdMn61p03vYSCiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAhu5pLezlmhtpbuSNSywQlQ8h/uguyrk+5A96qaBq669oNpqiQSWy3KbxFIQWTkjBxkZ47Ej3NW7u5jsrOW5mWVo4lLsIYWlcgeiICzH2AJrnPhzc+d4JsoZLW+tJrYGOWO9s5bdgck8CRRkYI5GR+NAHU0UUUAFZniHWo/D+iS37wvcOrJFDAhAaaV3CRoCeBlmAz261p1zvjmxurzw2slhA9zPZXlteiCP70qxTK7KvqxVTgdzgUdhk+ga9c6leX2natYx2Gp2BQyww3BnjaNwSjo5VSQdrAgqCCp7YJseIdaj8P6JLfvC9w6skUMCEBppXcJGgJ4GWYDPbrXMWmqSw6tr/i8aNrE1nJDaWVvbJYut1Psd9ziF9rBQZu4HCMcYwTseObG6vPDayWED3M9leW16II/vSrFMrsq+rFVOB3OBQ+ny/r7tRLrbX+v89CmfGl3bWeow6lpEUOsWU1vELSK83wy/aHCQsJiikKWJBJTI2nAbjLpPF9/ZWt/FqmjwxapavbpHBBemSCX7Q/lxHzmjUqN+Q2UyAMgNkA4GpQXOuv4h1hNJv30m+jsrGW3ls2juJ7aN3a4ZYXAfkSlQMBjhioztJj+xySaBrlvpmnatceG7ia2WSC9tpftTxdLlUSYeay+WEAzlvvCPogB/wP0+719dNA6/193/AADsNO1/UZW1K11PRgmpWEaS/ZrC6E6zo4bbskkWIbsowIYKBgc4Oau6FrUet+HrbVvJe1juIzJ5czDdGMn7xBxnjnBI9zXO+EpI9NGtXFnBqy6CnlyW63tpcNcmQJiQKki+e6ACMKCCc7gvygAU/D1neeIPhbbaVa+dpc8Z8q5j1bSpwsihiShjYxFlYEAkNjGQe4ofl/X9f8MC8zT0zx2Nc8O6lquj6Vc3Itb/AOxW0RDA3GSgWU4UlI/3m4nDEIN2D0rU8P61d6nNf2mq2Edjf6fKsc0cFx58TBkDqyuVQkYPIKggg9Rgnh/B2q69p9r4mubmxnvw2piYQrol3p7NE2xXmTzCxcBVYiJQXyvU7hXReB4nivdX+wwahFokkkb2ranFKlw8pU+aT5wErLwmDJk9QDtCgNbL0X5L+vw6C119X/X9ep19FFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFc9430W117w6tndqMm7t2hmAG+CTzVAkQ/wALDJwR6n1rndL1aG2j1bxJNpOnxa7DaQW2pSSSR2yrKkkkbmSZhkR/IrZ5OwLgHgUK1m+wHodFcJZ/ES51HSJLjTLDStRuItSisGFhrHnW7eYqlXWYRDOCwDDaCACRuOAUi+JMlvpd5f67pdvp8MVtDNCw1AMsjSStDh2ZEEYDr97J+U5IBytH9fhcP6/G35neUVzPhHxnbeKmvbeKXTZbqyCNK2l6gL23IfdtxKFX5vlOVKjHHXNbOj/2p/ZFv/b/ANk/tHb/AKR9i3eTuz/Du+bGMdaALtFUtZ1BtK0a6vo7aS6eCMssMYJLn8ATj1IBIGeD0rlofG+qXOhpqFnpmjaj5t9FaQvpuuefA+/5c+Z5IwVYjcu3oSRkjaTrb+tdA6XO2orhbT4h3j28jX2hRwzSxwGxhhvvMNxLLK0WxiUUIN653c/Kc4B+Wo/EOvzS6LqFp4hjj0e+0yS0vHNrqLtC0DzBd5k2xkr8sgZWXHHcEUdLh1t/Xkd9RXH/APCeLD4Xv/EV7bWkWkxzCKxnF9j7TmTywz70UQjdjOS2Bknpza8IeM7bxU95bxy6bLc2WxpW0vUBe25V923EoVfm+U5UqMcdc0bgdNRRWbr+sDQ9Ia7Fu1zK0kcMMCsF8yWRwiKWPCjcwyewzwelAGlRXA6VeeILbUvFszWNt/aMS28iWkuqyy24yjElJDHuUY52iMDOfXdV7TfEPiVvhxDrl3pOnT332SO5EUeoOFmjMYZmLeR8jdfkCsP9qjv5W/EO3nf8DsKK5DU/F+q6fZX99Bo1le2dtc28ETQ6kd85kKA4BiCggyDHzYPOStJdeOpNFstUPiextbC709IJAsV+JIJEncxxkyuke351YNlcKBnJo6BvsdhRXM+EfGdt4qa9t4pdNlurII0raXqAvbch923EoVfm+U5UqMcdc1s6P/an9kW/9v8A2T+0dv8ApH2Ld5O7P8O75sYx1oAu0Vn67caha6JczaPBbz3aISiXM5hT3O4I/IHONvPTjrXMeCtBvbjw+13rtxfI+p2sW+OLXrm4VsruMqsyo0DksQVjIUADHSha38v6/T+tbD0t5/1+p29FcT4e1kaH8LdJuDHJeXEgS3t4ml+aeZ5Cqgu3qTkscnGTyeKtS+ML2xtdUi1fTLK11PT4opzGNTH2YwyMVWVp3RCqgo+75CQF4DZAJdbhqdZRXHaR41u9f8O6td6Pb6Nd3unyeWPsurGe0k+RXyJ1izkBjldnUYzzmsnU9e8Q3fwnsLvUbOGO71OSxhxp16xeaOZ4w+GKR+U7BmHBO3OQ1Gu3p+OwadfP8Nz0eivOLDV9L8BWet282iaT4ZvFMEwggv8AFjM0oaON97JGI+YmD/IDhc/McVL8J9TsbqHxDbQeIbbXLtdWkmkniuEdpFZI/nAUnCZBC9gFxk4prVtLt/l/mJ6JXPQqKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDP1nSn1e0igj1G608xzpN5lqIizbDkKfMRxjIB4APHXrnO1HwVp1/d393HNc2V3fSW0z3FsUDJJASY3AZSpPIB3BgQBxxXQ0Uf1/X3AckvgBPtTXL+I9bkmkuYbqV3eAiSSPGCV8raAQqghQMbeMZbcWvw9tYLd4ZtZ1W5VrVbdTI0KlCsplSVSkSkOrHjtwMg11tFAGfpOlzadDIt1q19qksh5mvPLBUDoAsSIg787cnuTgYfo+m/2RpFvYfbLu+8hdv2m9l8yaTnOWbAyau0UAVdSsn1DT5LaK8ubF3wVuLUqJIyCDkbgynpyCCCMgisIeCQwL3Gv6rPdtdw3Ml262yvJ5WdkZCwhNuSTkKGPTdgAV09FAHI23w8tIIvLm1jVLoLbrDGZTCpjZJTKkqlIlIdWbj+HHUHmpp/BCXOn3MVxruqyXl08Rm1Ei389libdHGB5XlqoYk4CAkk5PJrqKKAOek8HW0surl9RvzFqjpMYFeNUtpk24liwgIfKKxySCR0qO/wDDWpS+GrzT4PEOpXF7dMgW/nnWGSABgcoII0Xjk4wN33WbHTpaKFoAVR1jSYNb0uSyumkjVirpLC214nVgyOpORlWAIyCOOQRxV6igDA0fwoul3uoXVxq+o6nLqMaJcG8MWG2ggECONNvynGBgcZxkkldP0W98N6A1rpN1LrE0SJHbR6pcLCiRrhQm6KLgAZ5KMx6E9Mb1FAHH614TvT8OYvD2hCBp0eElp7p4VG2VZGKuqOwORgccZ9quQ+DLdrG9XU9Rv7+9vliEt9NIglj8s7ognloiLsYlhhOSSTmukoo7gZ+k6XNp0Mi3WrX2qSyHma88sFQOgCxIiDvztye5OBh+j6b/AGRpFvYfbLu+8hdv2m9l8yaTnOWbAyau0UAVNUsX1LS57OO9uLFpl2/aLYRmRB3xvVl5HHKnr681S0/QZ9O8NjSYtd1GRkQJDeyJb+dCoAAAAiCHAH8SE881sUUd/MDmtP8ABUFl4ZOhz6rqN9Ajq9vNOYVltmU7lKNHGoyGG75gfQ5HFJJ4It7i0mF3q+pXGoSywy/2m5hE6GFt0YCiMRbVJY42YJYk5PNdNRQBg6R4Uj0u7vrmbVdS1GS/QC4+1yJtZgAu4KiKASoUYGAMcAEsTDD4KtR4Xk0K81LUb232xpBLLIiSWojx5flmNFAKEAhiC2QMk4ArpKKAMrRtBXSZLi4mv7vUr25CrLd3nliQoudqYjRFAG5jwucsc5qv4c8MHw7NfyDWdQ1H7fObiRbxYAFkIALL5cSdQAMHI44xzndoo63DpYKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqnpOrWWuaXDqOlzGa0nBMchRk3AEg8MAeoParlABRRRQAUVT0nVrLXNLh1HS5jNaTgmOQoybgCQeGAPUHtVygAooqrqGp2Ok26T6ldRWsbyLEjSsBvdjhVHqSegHNAFqiioby9tdOs5bvULmG1toV3STTyBEQepY8AUATUVW07UbTVtPhvtNuEubWdd0U0Zyrj1B7j3qzQAUUVVtdUsb27urWzvIZ57NglzHFIGMLEZCtjocc4PP50AWqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8e317pnhOS90zUf7OniuLcee0aOgVpkRg4Yfdwxzgg8cEVhalea3Y2vijTofE15PNpOnx6hDfGG285HZZSYXAi8sr+6VvuBsP16Gus8SaBH4l0VtNmvbmzjaRJDJbCMsdjBgP3iMuMgdu1Rp4P8Npov9kf2Bpbadv8ANNobGLymf++UC7d3vilrZlJpNGHqcviTRdLkvrnXllOoSWtuFNpGItNaSTa8iHgsuGXAfPzDPQ7Rma7q+uaJb6xYQ+I5pW09rCddTuoLcmPzpjG8MoVFQgKA/AVsOOehPd2ujaZY6T/Zdlp1pb6ftZPskUCpFtbO4bAMYOTnjnJrL1HwVpV34ZOhaag0OyaZJimlwQxjcrBvusjLyVBPy84pkJaa/wBf8P8A8Hc56+1zWNEutU0ddZe/KNYKup3UMO+yNzK8bbxGqIdoVWXIH3xnIp2p3mt2Nn4n02HxFfTS6Vp6ahDqRhtvNVyspMDgReWR+7VuEDYfr0J6+w8P6Rpekvpmn6XZW1jICJLaG2SOOTcMNuRQFOR145qH/hEvDn9jf2R/wj+l/wBm+Z5n2L7FH5O/+9sxtz74of8AX9f1fqUnrf8Ar+n+HQzH0rxA2k6jPe+KLhGuLVXjS0tYV+xyLuLeWzIdysNo+cE8EgjOA3wXZXTfD/T7eTxDfzXNxp8EqzutuZbUNGMBQItpHBwXVieck10en6bY6RYpZaVZW9jaR52QW0Sxxrk5OFUADJJP41Vg8NaFa6Zc6dbaLp0NjdMWuLWO0RYpicAlkAwxOB1Hajvbrb8L/wCZKT0v0/4H+RzUXiDVV+GGl3zXmb68khtpb+WJMQ+ZKIzMVAVcgHpgDOMjHFUdZ1PxBpKatpll4gnuZ7J7CWLULi2gZlM8xjaCVURVYYAb5QjYcc9Ce0sPDmiaVp89jpejafZWdxnzre3tUjjlyMHcqgA5HHPaov8AhEvDn9jjSf8AhH9L/s0SeaLL7FH5O/8AvbMbc++KOo/6/r8vx3KXhqXUYdc1rStR1SfVEtGgeGe5iiSQCRCSp8tEUgFcjjPPJNb15BJc2csMN1NZyOuFuIAheM+oDqy5+oIqG20fTLPULi/s9OtILy6AFxcxQKskwHTcwGWx71NeWdrqNnLaahbQ3VtMu2SGeMOjj0Kngih7Ajh5tY1yT4S6fqdtqzRaq0lurXT28biTdOsZ3ptAwQ3IXafQitrw1LqMOua1pWo6pPqiWjQPDPcxRJIBIhJU+WiKQCuRxnnkmrSeDPC8elvpsfhvSFsJJBK9qtjEImcDAYptwWx3xmr1to+mWeoXF/Z6daQXl0ALi5igVZJgOm5gMtj3oDoZPje7utN8OHU7XULixjsZ45rtreONy9uHAlB3o3AQluBn5etef2+q654h8BXl1ealqAmtri0tGh1C1gCi4+1o/mMsaISQjRZAYDkjqM16/PBFc28kFzEk0MqlJI5FDK6kYIIPBB9KqahomlatZtaapplne2zuJGhubdJEZx0YqwIz70Lz/r+vzH2ONudX1vRf7Y059YlvWju7KGLUbyCENarcEKzEIqIwU8jI6nnIrc8P3N/b+JNU0O91GbV47SCC4S8nSJZEaQuDE3lKqkgIGHyg4fnPBOougaOlzeXCaTYrPfp5d3KLZA1wuMbZDjLDHGDmmQ+G9Dt9Gk0i30XT4tMlz5lklqiwvnk5QDaenpQv6/r9Rf1/X5HJWmr3eh/BezvdPjZ7gLHEpUISgeYIWG9lXIDEjcQMjnjNa/g+81uW5v7TW4b9Y4FjeCXU3s/tLbt24MtqxQKNowSFJyeuM1rWHhvQ9KsZ7LS9F0+ytLnPnwW1qkccuRg7lUANxxz2qbStG0vQrU2uiabZ6dbs5cw2kCxIWPBOFAGeBz7ULS4PYoeL9SutL8PNNYSpBNLcQWwuHQMIBLKsZkweDtDZGeMgZ44rkBc3Wiaj4phXXru8vmmsLaK4+z273LO4OIwuEiDkN8rMAoyCwYA59HuLeG7tZba7hjngmQpJFKoZXUjBUg8EEdqyovB3hiCzmtIPDmkx208YilhSxiCSIGLBWULggMScHuc0v6/r+uvlYZzGh6lqmraP4j0y71fVLO9sZcRS3H2E3ka+UjsCIQ0WMt/dyAw6HBpNMurvR/hZpv8AxUF/dX93b2YhLQ20k6GVVVY4hhEycMFaXcAeWLAEV2WnaDpGjknSNKsrAmMRn7LbpFlASQvygcAsSB7n1qKPwvoEOl3GmQ6HpsdhdP5k9otpGIpm4+ZkxhjwOSOwp9/O34f5/wBXF2+f4/5f1Y5TQtd1m60nxDYPfTJqlpcLDanWJLRZ0LRxnDG3zFndINvB5ZQwNRyeINY0bwrq0slxq9xqUMtuot9UhshPbJLIE3hoSsLD7xGW4K/McV1sfhTw7DZy2kOgaXHbTxLDLCtnGEkjBJCMuMFQSSAeMk1LYeHdF0vTptP0zR7CzsrgkzW1vapHHJkYO5QADkDBz2oYLocvpsviK90rW7DUbnWNNMEKSW97dNYG8ydxYFYd8YX5QASoPLdxmtPwBDNb+CtLW71e51GWSxt5j9p8oNCrRjCjy0X5eDgtknB5NbOl6Lpeh2htdE02z063Zi5htIFiQseCcKAM8Dn2o0zRtM0WCSDR9NtNPilkMkkdrAsSu54LEKBk8Dn2o7+dvwv/AF/w4u3zIfDcVrB4cs49P1WbWLZUxHfz3IuHnGT8xkHDemfatOobOytdPs47TT7aG1tohiOGCMIiD0CjgVNTe4wooopAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVzvjm+urPw2sdhO9tPe3ltZCeP70SyzKjMvowVjg9jg10VZniHRY/EGiS2DzPbuzJLDOgBaGVHDxuAeDhlBx3xijsMx/DXm6X4t1rw+Lq6urO3gtry3N5cPPJH5pkVk8xyWYZi3DJONxHTAHV1iaBoVzpt5fajq19Hf6nflBLNDbmCNY0BCIiFmIA3MSSxJLHtgDbpskKKKKQznfHN9dWfhtY7Cd7ae9vLayE8f3ollmVGZfRgrHB7HBqt4a83S/FuteHxdXV1Z28FteW5vLh55I/NMisnmOSzDMW4ZJxuI6YA2PEOix+INElsHme3dmSWGdAC0MqOHjcA8HDKDjvjFZEXhbWY7XU7lfEMcWvai0IbUIdPAjhjjPEaQu7cEF8ksTlyewAI9f600/4LB/1/XpoTeO72Sx8M+YLia0tWuoI726gYq1vbmQCR9w5QbcguOVBLZGM1j+EtUtdT1bxBofh7W72502CC3mtdQ+0G6aNpfMDCKabeJVBjBBO8Biw7bR2Oq297daZNDpd8NPu2A8q5aEShCCDyhI3A4wRkHB4IPNZml6DfadBqV0+owXGt6iQ0l21oRChVdsarEJN2xR235JLHdzwLRP+uwPp/X9diHwnJe6r8PrJrnUbkXk8BDXqhDKGyfnAKlM+23HtjisU6jqEnwbt76W9uprpljM8scojuLhTMA6RsMASuuVULj5mAUqcEbnhvQtZ0Dwp/ZUurWV1cwqy2tyNPeNEB5G+PziXwSejLx+dUtP8HanbeDYdGu9cgkubOdJ7K8t7ExBGRtyiSNpG3jOQcFcjpg/NSe/3AtCn4ftI9cttXsNP1XWLfTBNbgw3d1cLfW7jDyoXkbzkV12AZPdyvBBOl4a0dRp2ozadqeqRQ3zlLWWa/ku3iRMqJENwZBljuboQRtyKuaToN9bXGo32q6lDdalfRpCZba1MEUSIG2BULuc5diSWOc9sVJoui3WheC7HRbO+jkurGyS2ju57csrMqhQzRhgccdAw+ven3/r+tvxDt/X9f8Ai8EXVze+CtMuL+4kuriSImSaTG5zuPJwAPyAHpW9WH4Q0TUPD3h+LTNT1G31DyCRFLBaNb4XOcMDI+TknkEcY471uUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEN3cx2VnLczLK0cSl2EMLSuQPREBZj7AE1BpGq22uaRb6lYeYba4XfGZEKMRnHKnkdOh59anu7u2sLOW7vriK2toVLyzTOERFHUljwB7muX+GOq6fqngGwOmX1vd+Qpjl8iVX8ttxO1sHg4IOD2IoA66iiigAqlrGrWuhaTPqN8X8mED5Y13O7EhVRR3ZmIAHckVdrmPiDHIfC6XKRvJHY39peTqilj5UU6O5wOuFBbHtR2GaOh+IItbN1C1ndade2bqtxZ3gQSR7hlWyjMpUjoVYjgjqCBZ1jVrXQtJn1G+L+TCB8sa7ndiQqoo7szEADuSK42x8T6ND4h8R+LjfxtoC29lZC/hBljllDyZ2lAdwBmRSRkA5GeDjY+IMch8LpcpG8kdjf2l5OqKWPlRTo7nA64UFse1D6fL/AIf7tRLr1/rb9B8fjW0Om3s1zp2oWt5ZSxwyabKiG4LyECILtcoQ5IAYPtHOSNpwL40t0sr173S9Rs72zaJG06VYmnkMp2xbCjshDNkA78Ag7tuCa47V76x1u48SaxZXCz6FcJp1i+qW7Fki2SyPLPG6nrGJFIkBIRhk/cYU2W9tbnQ9eji1b+3NIaezR/ESMrvAm75z5sWFzCAHDqAELhmBIYsf8D9P899g6/1/Xy3O8sPFEN1Df/bNO1DTrnT1V57OaETTbGBKsqwNIHBwwAUk5UjGacvinTpPDEWuxec9rcbRAnllZJWZtiKFbGCzEABsYzzjnGB4Q1axim166/t2DV9Jt1hb+3ppY8EBTuieVcRsIwAcgDHmc5bcxoeHfE/hdfg9bX2oXem39lZlY5UeWN0SfzP3asWO1DuKkFsY4bIHND/yBHRL42tlsr2S90vUbK8s5Iom06ZI2nkaUgRBCjsjbzwDvwCDu24NaOi66msNcwyWV1p15asons7wJ5iBhlWyjMrKRnBVjyCOCCBxU9/oOraDqeqDxNYm8tpra9uNWsCLm2tXVz5UZ2nLIuDuBK8OzZTdxf8AAQu9R8S6/r02qx6ra3KW1rBd20PlW0pi8wsYRubKAyY3FmywfnAADXW/9bf8EXT+v62O6ooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAornvG+i2uveHVs7tRk3du0MwA3wSeaoEiH+Fhk4I9T61zul6tDbR6t4km0nT4tdhtILbUpJJI7ZVlSSSNzJMwyI/kVs8nYFwDwKFazfYD0OiuEs/iJc6jpElxplhpWo3EWpRWDCw1jzrdvMVSrrMIhnBYBhtBABI3HAKRfEmS30u8v8AXdLt9PhitoZoWGoBlkaSVocOzIgjAdfvZPynJAOVo/r8Lh/X42/M7yiuZ8I+M7bxU17bxS6bLdWQRpW0vUBe25D7tuJQq/N8pypUY465rZ0f+1P7It/7f+yf2jt/0j7Fu8ndn+Hd82MY60AXaKpazqDaVo11fR20l08EZZYYwSXP4AnHqQCQM8HpXLQ+N9UudDTULPTNG1Hzb6K0hfTdc8+B9/y58zyRgqxG5dvQkjJG0nW39a6B0udtRXC2nxDvHt5GvtCjhmljgNjDDfeYbiWWVotjEooQb1zu5+U5wD8tR+Idfml0XULTxDHHo99pklpeObXUXaFoHmC7zJtjJX5ZAysuOO4Io6XDrb+vI76iuP8A+E8WHwvf+Ir22tItJjmEVjOL7H2nMnlhn3oohG7GclsDJPTm14Q8Z23ip7y3jl02W5stjStpeoC9tyr7tuJQq/N8pypUY465o3A6aiis3X9YGh6Q12LdrmVpI4YYFYL5ksjhEUseFG5hk9hng9KANKiuB0q88QW2peLZmsbb+0Ylt5EtJdVlltxlGJKSGPcoxztEYGc+u6r2m+IfErfDiHXLvSdOnvvskdyIo9QcLNGYwzMW8j5G6/IFYf7VHfyt+IdvO/4HYUVyGp+L9V0+yv76DRrK9s7a5t4Imh1I75zIUBwDEFBBkGPmweclaS68dSaLZaofE9ja2F3p6QSBYr8SQSJO5jjJldI9vzqwbK4UDOTR0DfY7CiuZ8I+M7bxU17bxS6bLdWQRpW0vUBe25D7tuJQq/N8pypUY465rZ0f+1P7It/7f+yf2jt/0j7Fu8ndn+Hd82MY60AXaKz9duNQtdEuZtHgt57tEJRLmcwp7ncEfkDnG3npx1rmPBWg3tx4fa7124vkfU7WLfHFr1zcK2V3GVWZUaByWIKxkKABjpQtb+X9fp/Wth6W8/6/U7eiuJ8PayND+Fuk3BjkvLiQJb28TS/NPM8hVQXb1JyWOTjJ5PFWpfGF7Y2uqRavplla6np8UU5jGpj7MYZGKrK07ohVQUfd8hIC8BsgEutw1OsorjtI8a3ev+HdWu9Ht9Gu73T5PLH2XVjPaSfIr5E6xZyAxyuzqMZ5zWTqeveIbv4T2F3qNnDHd6nJYw4069YvNHM8YfDFI/KdgzDgnbnIajXb0/HYNOvn+G56PRXnFhq+l+ArPW7ebRNJ8M3imCYQQX+LGZpQ0cb72SMR8xMH+QHC5+Y4qX4T6nY3UPiG2g8Q22uXa6tJNJPFcI7SKyR/OApOEyCF7ALjJxTWraXb/L/MT0SuehUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGfrOlPq9pFBHqN1p5jnSbzLURFm2HIU+YjjGQDwAeOvXOdqPgrTr+7v7uOa5sru+ktpnuLYoGSSAkxuAylSeQDuDAgDjiuhoo/r+vuA5JfACfamuX8R63JNJcw3Uru8BEkkeMEr5W0AhVBCgY28Yy24tfh7awW7wzazqtyrWq26mRoVKFZTKkqlIlIdWPHbgZBrraKAM/SdLm06GRbrVr7VJZDzNeeWCoHQBYkRB3525PcnAw/R9N/sjSLew+2Xd95C7ftN7L5k0nOcs2Bk1dooAq6lZPqGnyW0V5c2LvgrcWpUSRkEHI3BlPTkEEEZBFYQ8EhgXuNf1We7a7huZLt1tleTys7IyFhCbcknIUMem7AArp6KAORtvh5aQReXNrGqXQW3WGMymFTGySmVJVKRKQ6s3H8OOoPNTT+CEudPuYrjXdVkvLp4jNqJFv57LE26OMDyvLVQxJwEBJJyeTXUUUAc9J4OtpZdXL6jfmLVHSYwK8apbTJtxLFhAQ+UVjkkEjpUd/4a1KXw1eafB4h1K4vbpkC3886wyQAMDlBBGi8cnGBu+6zY6dLRQtACqOsaTBrelyWV00kasVdJYW2vE6sGR1JyMqwBGQRxyCOKvUUAYGj+FF0u91C6uNX1HU5dRjRLg3hiw20EAgRxpt+U4wMDjOMkkrp+i3vhvQGtdJupdYmiRI7aPVLhYUSNcKE3RRcADPJRmPQnpjeooA4/WvCd6fhzF4e0IQNOjwktPdPCo2yrIxV1R2ByMDjjPtVyHwZbtY3q6nqN/f3t8sQlvppEEsflndEE8tERdjEsMJySSc10lFHcDP0nS5tOhkW61a+1SWQ8zXnlgqB0AWJEQd+duT3JwMP0fTf7I0i3sPtl3feQu37Tey+ZNJznLNgZNXaKAKmqWL6lpc9nHe3Fi0y7ftFsIzIg743qy8jjlT19eapafoM+neGxpMWu6jIyIEhvZEt/OhUAAAARBDgD+JCeea2KKO/mBzWn+CoLLwydDn1XUb6BHV7eacwrLbMp3KUaONRkMN3zA+hyOKSTwRb3FpMLvV9SuNQllhl/tNzCJ0MLbowFEYi2qSxxswSxJyea6aigDB0jwpHpd3fXM2q6lqMl+gFx9rkTazABdwVEUAlQowMAY4AJYmGHwVajwvJoV5qWo3tvtjSCWWREktRHjy/LMaKAUIBDEFsgZJwBXSUUAZWjaCukyXFxNf3epXtyFWW7vPLEhRc7UxGiKANzHhc5Y5zVfw54YPh2a/kGs6hqP2+c3Ei3iwALIQAWXy4k6gAYORxxjnO7RR1uHSwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)

Figure 5: Splitting using StratifiedShuffleSplit among ‘smoke’

3  Correlations of data

Computing the standard correlation coefficient between each pair of attributes can shows the correlations of data and the approximate contributions of a specific feature to predict the targets. We build a correlation heat map.

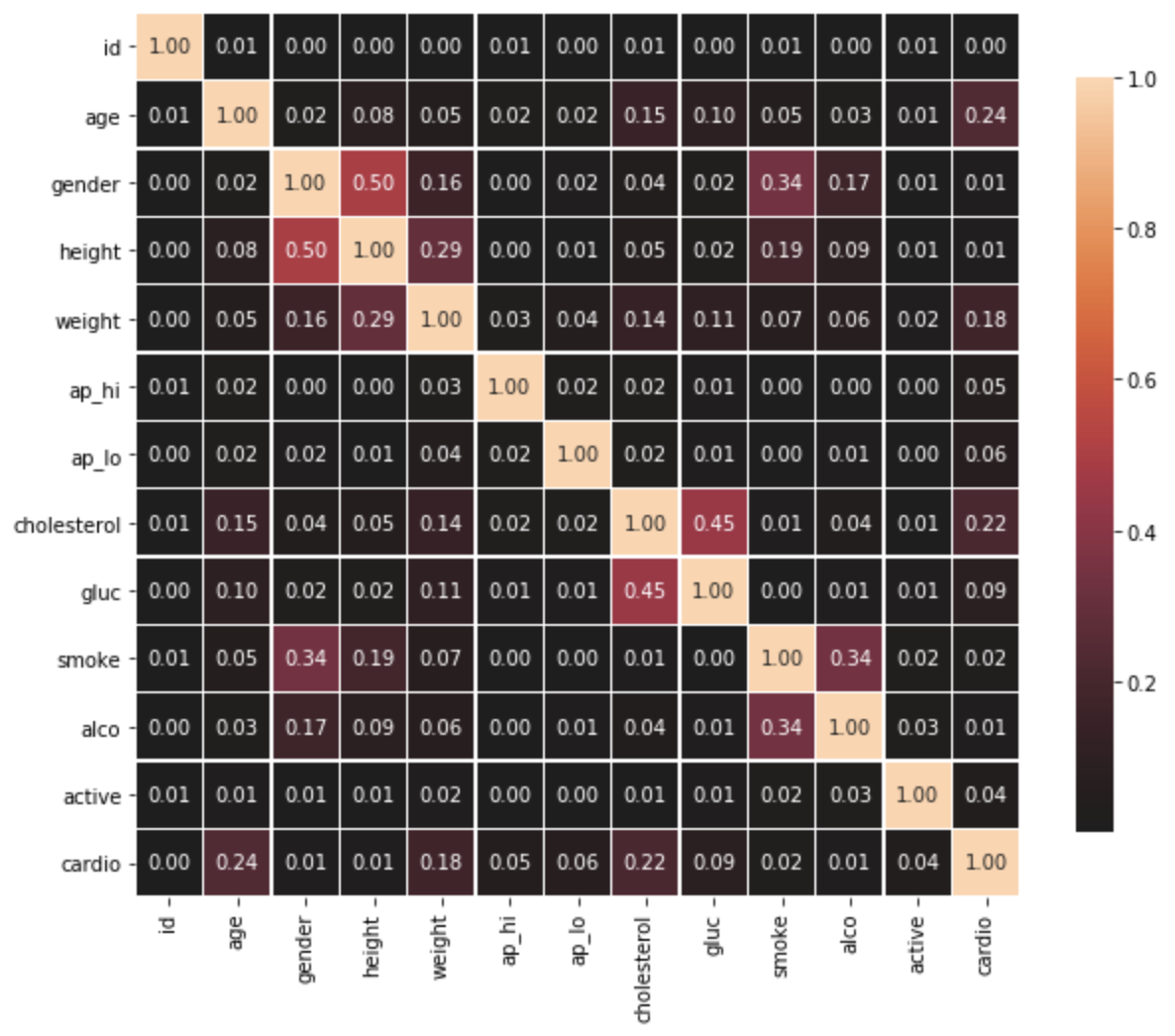


Figure 4: correlation heat map

In terms of the correlations of the data, we can find that the height, smoke and weight have a high correlation with gender, so we may need to consider to average the gender when splitting the training and testing dataset. The height also has high correlation with weight, so we can combine height and weight to a new attribute called BMI (Body Mass Index) which is weight / height2 kg/(m2). We can also combine the systolic blood pressure (ap\_hi) and diastolic blood pressure (ap\_lo) to a new attribute called MAP (Mean Arterial Pressure) which is 1/3 ap\_hi + 2/3 ap\_lo. After we add these two attributes to the data, we get a new correlation heat map like the figure shown below.

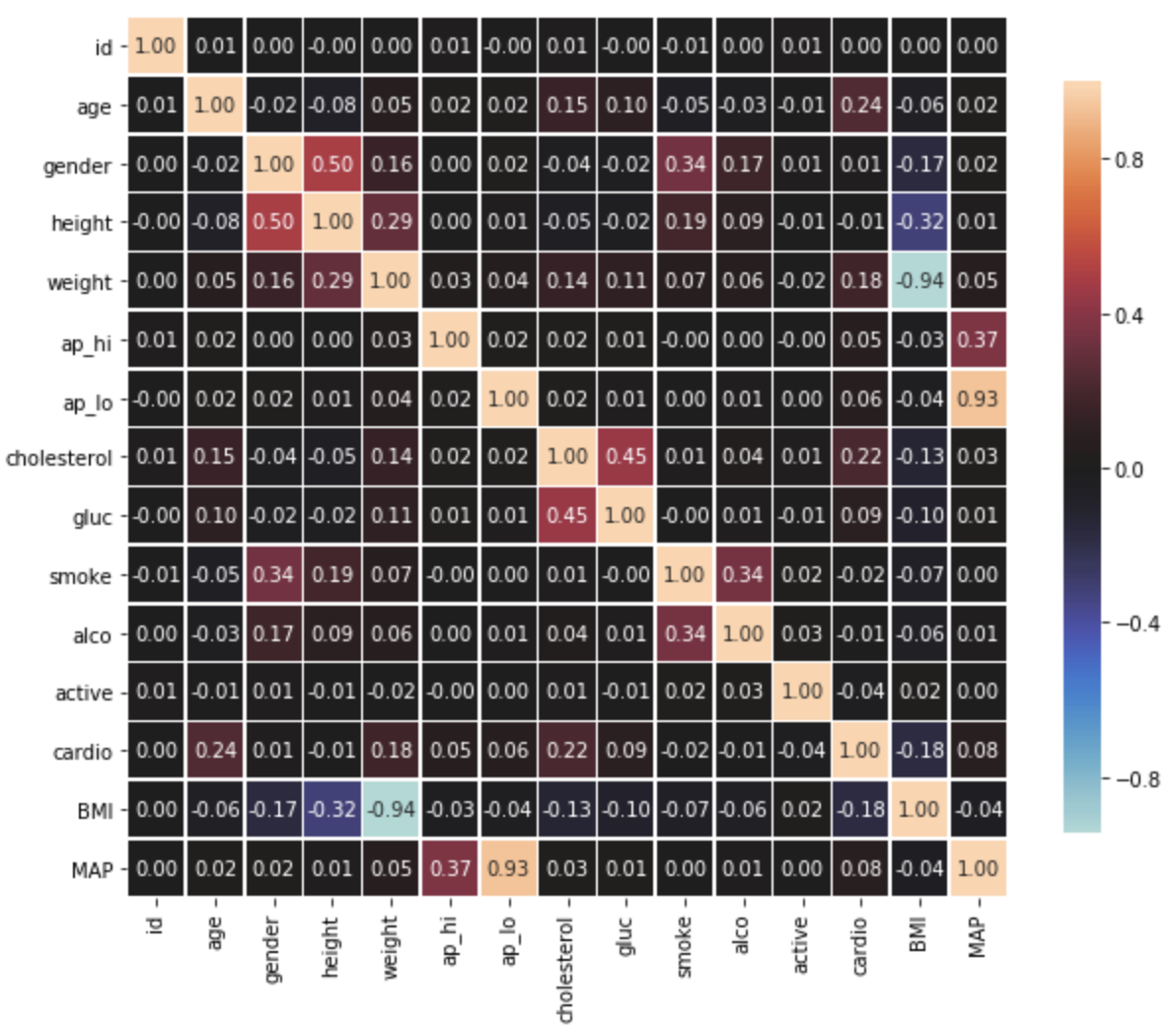


Figure 5: correlation heat map with BMI and MAP

From Figure 5, We can see that the correlations between BMI and cardio, MAP and cardio are not less than using height-weight and ap\_hi-ap\_lo combinations which means that using BMI and MAP will have at least equivalent performance on predicting the cardiovascular disease.

4  Handling Categorical Attributes

Since the dataset doesn’t have missing data and text data, so we just need to handle the categorical attribute. Luckily, we just have gender attributes to handle because male and female are originally represented by 1 and 2 which have magnitude difference while there is no magnitude difference between male and female. So, we use one-hot encoder to represent gender.

5  Data Cleaning

REFERENCES

[1] Osman Yucel, Jon Hoffman and Sandip Sen, Jonny black: A mediating approach to multilateral negotiations. Studies in Computational Intelligence, ISSN: 1860-949X, Vol: 674, 2017, Page: 231-238

[2] Dimitrios Tsimpoukis, Tim Baarslag, Michael Kaisers, Nikolaos G. Paterakis, Automated Negotiations Under User Preference Uncertainty: A Linear Programming Approach

<https://link.springer.com/chapter/10.1007/978-3-030-17294-7_9>

[3] Shogo Kawaguchi, Katsuhide Fujita, and Takayuki Ito, AgentK: Compromising Strategy Based on Estimated Maximum Utility for Automated Negotiating Agents

<https://link.springer.com/content/pdf/10.1007%2F978-3-642-24696-8_8>

Conference Name:ACM Woodstock conference

Conference Short Name:WOODSTOCK’18

Conference Location:El Paso, Texas USA

ISBN:978-1-4503-0000-0/18/06

Year:2018

Date:June

Copyright Year:2018

Copyright Statement:rightsretained

DOI:10.1145/1234567890

RRH: F. Surname et al.

Price:$15.00